

Instruction Manual

Hustler Resonators

Hustler resonators are designed for use with our 54 inch mast, models MO-1, MO-2, and MO-3.

Under the clutch nut (see illustration) is a barrel shaped clutch sleeve. The nut and sleeve work together to hold the rod. If you find it necessary to remove the clutch nut use caution as the clutch sleeve will fall out and is easily lost.

To assemble your resonator loosen the clutch nut and slide the rod 4 inches into the receptacle tube. This length is calculated for the approximate center of the band. Tighten the clutch nut and screw the resonator on your mast.

Using a good quality V.S.W.R. meter check the resonate frequency. If it is too low, loosen the clutch nut and push the tip rod into the tube in $\frac{1}{4}$ inch increments until the desired frequency is reached. To lower the resonate frequency extend the rod in $\frac{1}{4}$ inch increments.

If it becomes necessary to trim the rod use a file to score the rod at the cut point. Wearing safety glasses or other adequate eye protection, place the rod on a table or similar sharp edge and use a hammer to snap off the excess rod. Use a file to deburr the rough end.

Hustler resonators are very versatile and can be tuned above or below the ham bands by altering the tip rod length. If you wish to operate on other bands such as MARS or CAP frequencies contact the factory and request a resonator cut chart.

There are several accessories available for your Hustler HF mobile system.

- VP-1** Multi-band adaptor - accepts 3 resonators for multi-band use.
- RSS-2** Spring - mounts between resonator and mast.
- QD-1** Quick Disconnect - recommended if you remove your mast often. Protects the threads on your mount.

LIMITED HUSTLER WARRANTY:

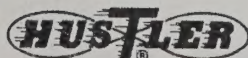
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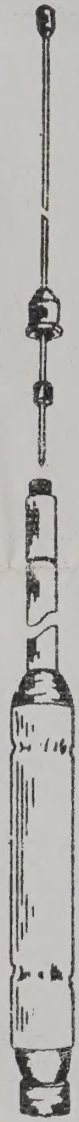
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**Super
Resonator**



**Standard
Resonator**

STANDARD RESONATORS

	TIP ROD LENGTH	BANDWIDTH (AT 2:1 SWR OR BETTER)
RM-10	12 5/8"	150 - 250 KHz
RM-11	12 5/8"	150 - 250 KHz
RM-12	18 7/16"	100 - 150 KHz
RM-15	12 5/8"	100 - 150 KHz
RM-17	23 1/4"	80 - 100 KHz
RM-20	18 7/16"	80 - 100 KHz
RM-30	18 7/16"	50 - 60 KHz
RM-40	32 1/8"	40 - 50 KHz
RM-75	32 1/8"	25 - 30 KHz
RM-80	40 1/8"	25 - 30 KHz

SUPER RESONATORS

	TIP ROD LENGTH	BANDWIDTH (AT 2:1 SWR OR BETTER)
RM-10S	12 13/16"	250 - 400 KHz
RM-11S	18 5/8"	250 - 400 KHz
RM-15S	16 5/16"	150 - 200 KHz
RM-20S	18 5/8"	100 - 150 KHz
RM-40S	32 5/16"	50 - 80 KHz
RM-75S	32 5/16"	50 - 60 KHz
RM-80S	40 5/16"	50 - 60 KHz

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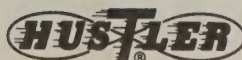
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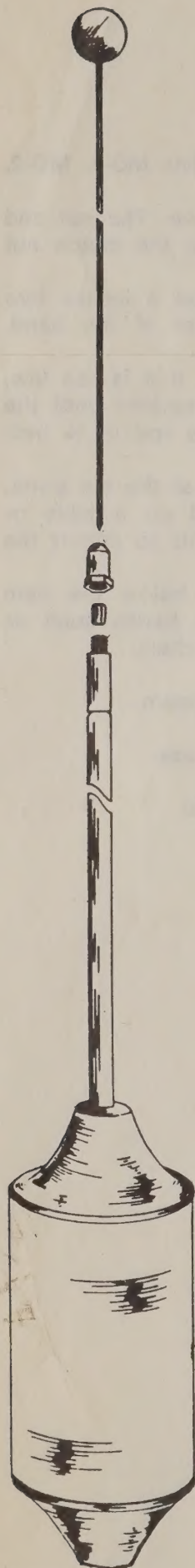
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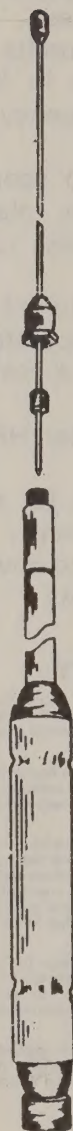
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INSTRUCTIONS FOR MOUNTING HUSTLER "HUSTLOFF" 5/3 WAVE
MOBILE ANTENNA MODEL HT-144

The mount attaches to the trunk lip at approx. the center of the trunk lid on the driver side.

Raise the knob on the mount by turning it counter-clockwise. Slip the mount onto the trunk lip with the leg of the bracket under the lip all the way. Screw down the knob securely to enable the turned up grounding edges of the bracket to bite thru the paint on the underside of the trunk lip to make a definite ground connection.

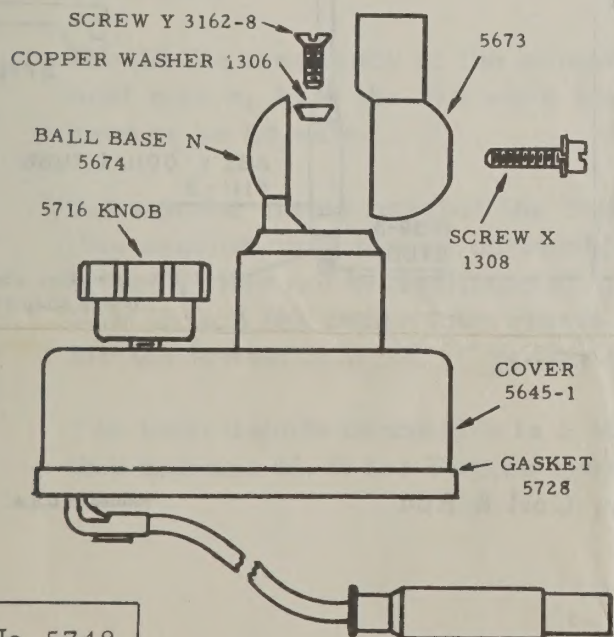
Run the 17 foot cable from the transceiver under the carpet and under the rear seat and plug it into the pigtail lead on the mount.

Attach your antenna mast to the mount. The antenna can be adjusted to vertical position as follows: If the mast does not tilt to either side but must be adjusted front to back, loosen set screw X and adjust mast to vertical position or to angle desired. If the mast tilts to either side, remove mast by removing screw X. Loosen screw Y and rotate Ball Base N until flat face of ball segment is vertical. Tighten screw Y. Attach mast and adjust mast as in paragraph above.

Before turning on your transceiver check for good ground connection with any type continuity checker between the metal bracket and unpainted part of the car body.

If a good ground connection is not indicated it might be necessary to scrape the paint from the underside of the trunk lip at points where the turned up edges of the of the bracket make contact with the trunk lip.

When removing and attaching the mount always mount it back on the same spot to insure a good ground connection. If it is not re-attached in the same spot, the SWR as originally checked might be adversely affected.

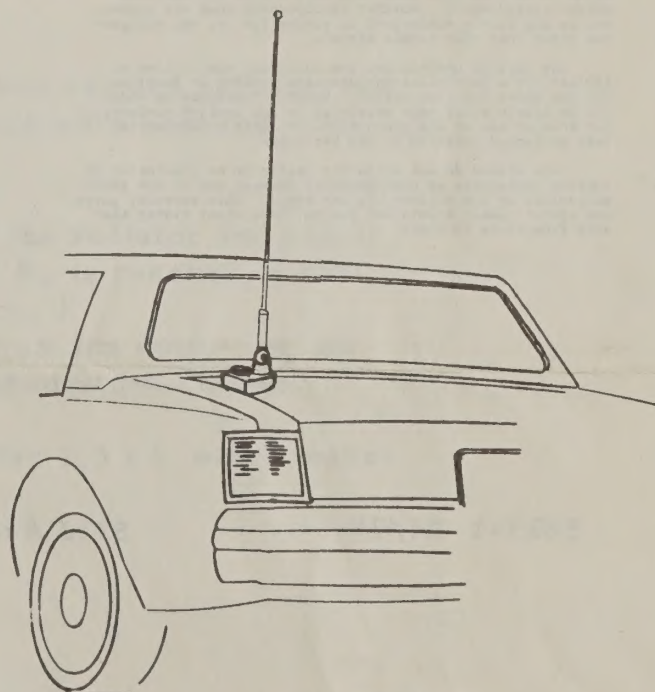


KIT No. 5748

HT-144

5823 R1/79

-over-



HUSTLER INC

3275 North B Avenue
Kissimmee, Florida 32741

TUNING INSTRUCTIONS

The Model HT-144 is a 5/8 antenna designed to cover the entire 2 meter band from 139 to 148 MHz.

The tip rod is adjustable. Loosening the clutch nut will allow about 2 1/8" movement of the tip rod. This should be enough to allow adjustment for best SWR.

Insert Watt Meter in coax line and adjust the tip rod length for best SWR.

Should the tip rod need to be shortened, to reach a higher frequency of operation, do so by grinding rod to new length from bottom end. Be sure to remove all burrs from rod before reinsertion. 1" of rod length equals approximately 3 MHz of frequency change.

HUSTLER WARRANTY

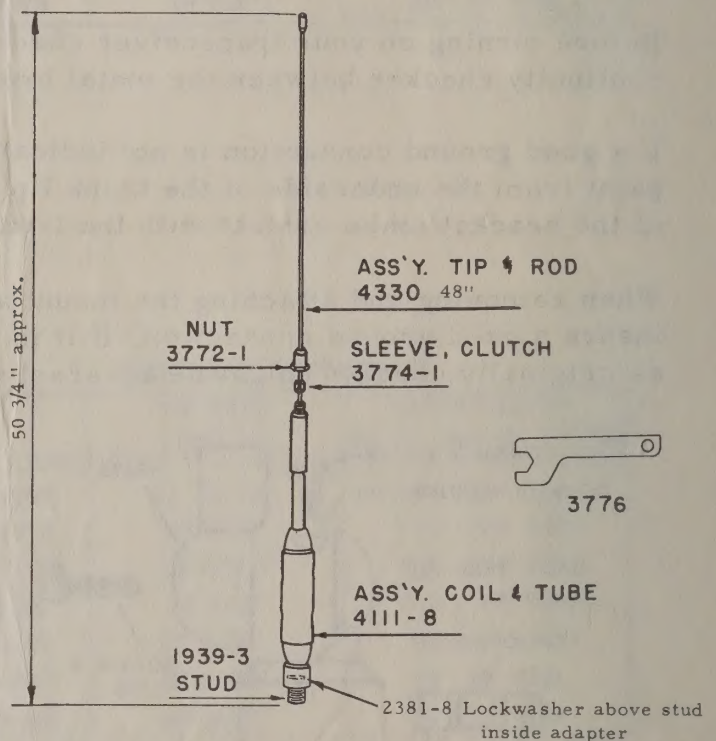
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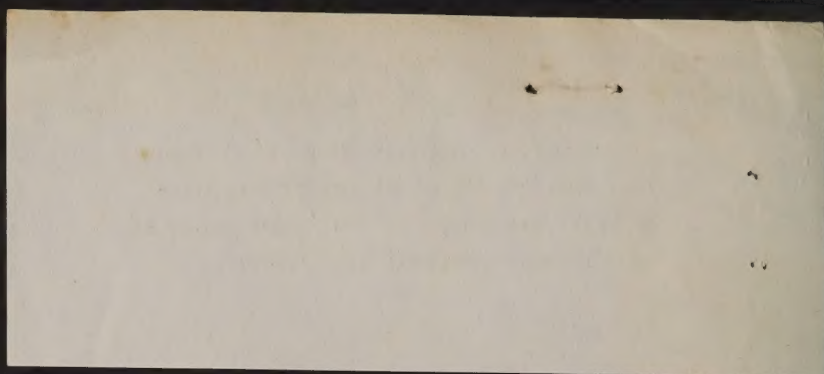
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Note - for improved performance
the model G6-144 incorporates
a $5/8$ wave upper section instead
of the advertised $1/2$ wave.

5246



INSTALLATION INSTRUCTIONS FOR G6-144

1. Screw the cast base to your 1" pipe mast securely with flat side of flange up. The end of the pipe should not extend beyond the flat surface. If it does, the threads on the pipe have been cut too deep. Remove it and cut some of the threaded end off.
2. Assemble the lower radiator section and the 4 radials with the 4 screws provided. It is important that you attach the ground radials in the counterclockwise direction as shown in the bottom view. Start the 4 screws and then slip in the radials. Tighten screws, making sure that the radials are close against the screws.
3. Next screw on the coil assembly and upper radiator section as shown in the illustration. Tighten securely.

TUNING INSTRUCTIONS:

After the installation is complete install a dependable watt meter at or near the feed point of the antenna.

The G6-144 utilizes both a $3/4$ wave and a $5/8$ wave Colinear Radiator which has been spaced for optimum low angle radiation.

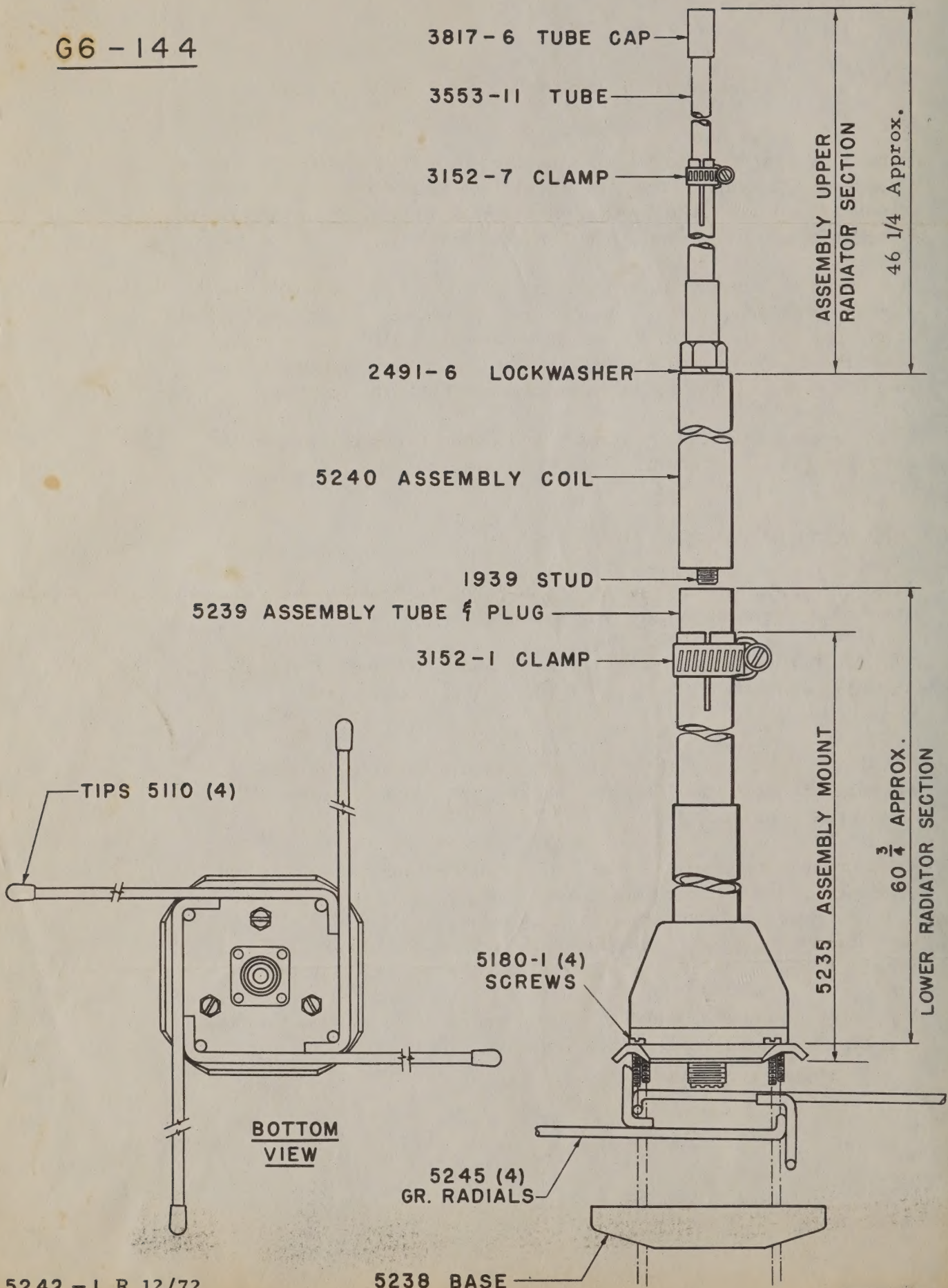
Should the frequency of the antenna system require retuning for best match, both the $3/4$ wave and the $5/8$ wave sections will have to be adjusted.

Loosen the clamp nearest the bottom of the radiator and adjust this section until lowest obtainable S.W.R. is reached. (The S.W.R. may not be optimum at this point.)

Now loosen the upper tube clamp and adjust the upper section for the lowest S.W.R. Secure all hardware and clamps.

The total usable bandwidth is 6 MHz under 1.5 : 1 which makes this antenna ideal for Duplex operation.

G6 - 144



HUSTLER COLINEAR TWO METER FIXED STATION ANTENNA

MODEL G6-144-A

FCC accepted for Repeater application at 6 db gain based on EIA Standard RS-329; gain compared to 1/2 wave dipole.

INSTALLATION INSTRUCTIONS:

1. Check package contents against illustration to insure all items are included.
2. Refer to Figure 1 and install the four radials. This is most easily accomplished by inserting the four #5180-3 screws two to three turns into the #5328 cast aluminum base. Note the clockwise direction and install all radials before tightening the four screws. Hold the base assembly in a vertical position while installing radials. Install red tips on ends of radials.
3. Attach the phasing coil and upper radiator to the lower radiator and base assembly. Tighten the assemblies securely.
4. Mount the antenna on a 1" to 1-3/4" diameter mast with the "U" bolts supplied.

TUNING INSTRUCTIONS:

After the assembly is complete, install a dependable watt meter at or near the feedpoint of the antenna.

The G6-144-A utilizes a 5/8 wave lower and a 5/8 wave upper colinear radiator which has been spaced for optimum low angle radiation.

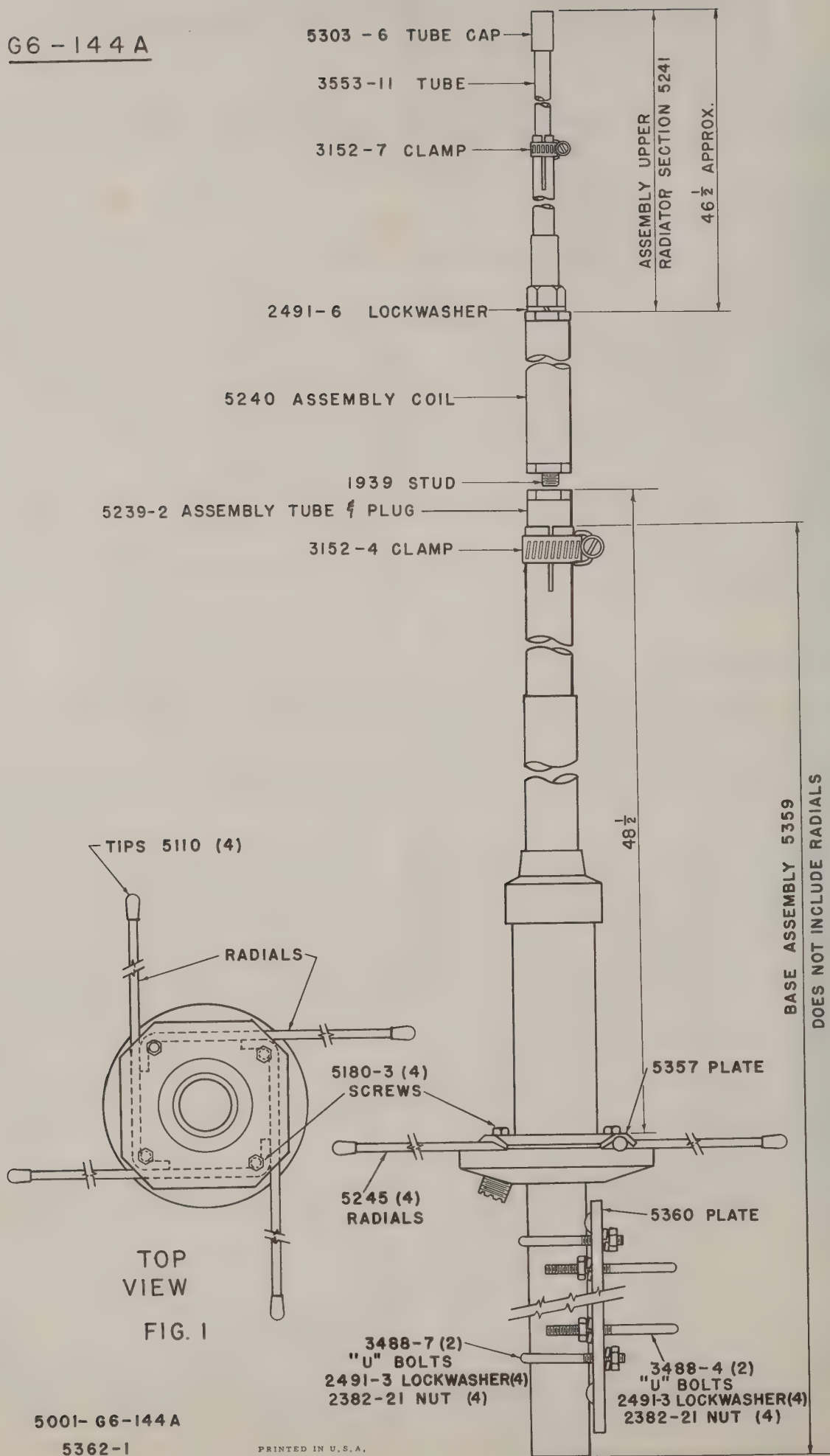
Apply power to the antenna on or near the center of the megacycle to be used, (146-147 MHz) or (147-148 MHz). Loosen the clamp of the bottom radiator only and adjust the length until the lowest reflected power or VSWR is obtained. Secure this clamp. If it is desired to further minimize the reflected reading, loosen the clamp of the top radiator and adjust this length until the lowest possible reading is obtained. Adjustment increments should be in steps of no more than 1/2 inch.

Secure all hardware and clamps.

Before final installation, if desired, coat the entire antenna with the exclusion of the rf connector with a good grade of clear acrylic lacquer such as "Krylon".

The total useable bandwidth is more than 2 MHz under 1.5:1 without degradation of gain which makes this antenna ideal for duplex operation.

G6-144A



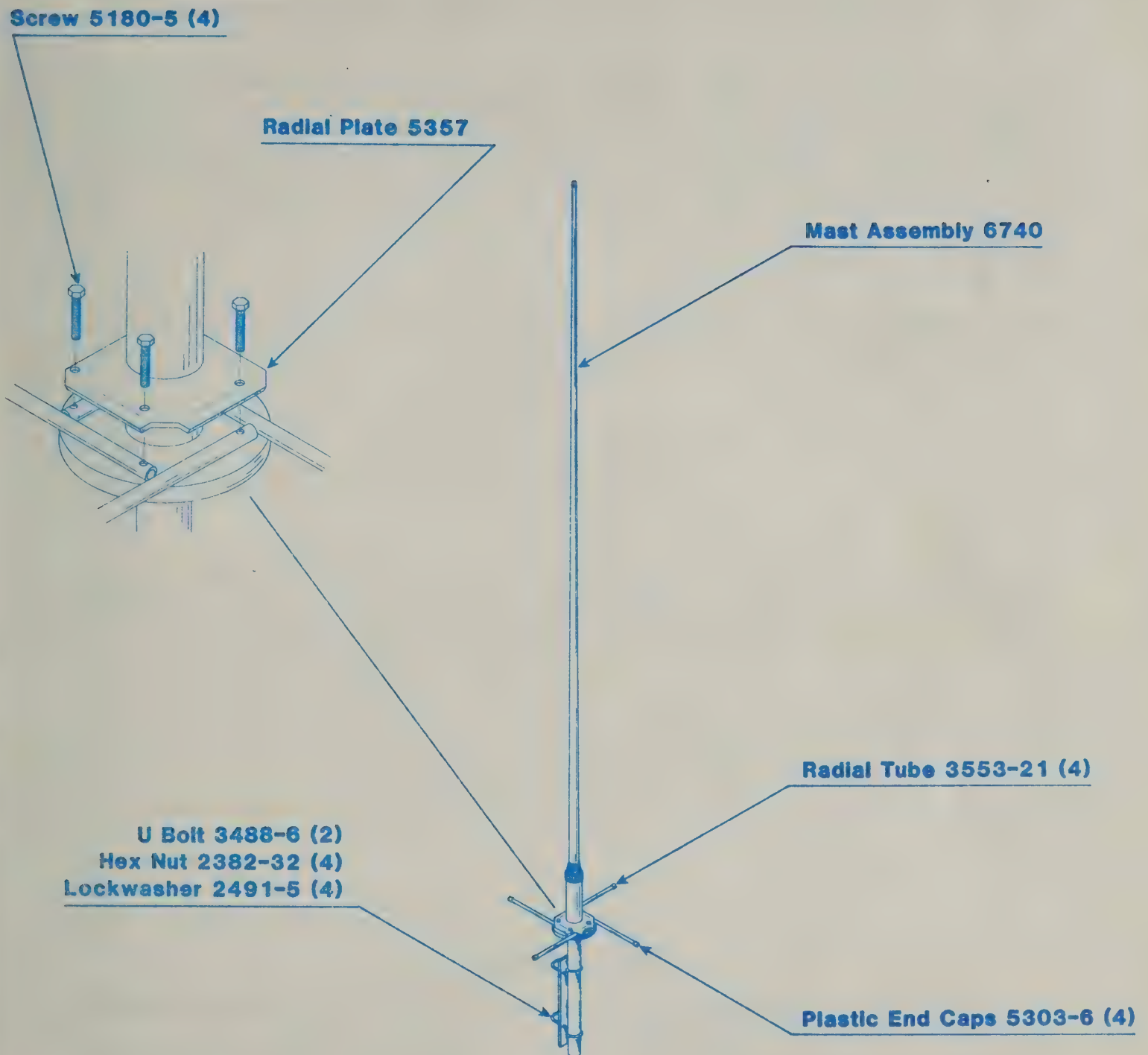
5001- G6-144 A

5362-1

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Figure 1

Hustler G6-440



Check the package contents against the parts list to make sure all items are included.

Install the four radials (3553-21) onto the base by capturing the radial tubes between the stamped plate and the base. (See illustration) The screws (5180-5) should be inserted through the radial plate (5357) and radial tubes and threaded two or three turns into the base. Tighten the screws when all four radials are positioned as shown in Figure 1. Add end caps to the radials.

Mount the antenna on a 1" to 1-3/4" mast with the "U" bolts supplied in the hardware kit.

The G6-440 is preset at the factory to cover the entire 440 band and does not require additional tuning.

PACKAGE CONTENTS

PART NO.	DESCRIPTION	QTY.
6740	Mast Assembly	1
3553-21	Radial Tubes 3/8" x 7-1/4"	4
6742	Kit Consisting of:	1
2382-32	Hex Nut	4
2491-5	Lockwasher	4
3488-6	U Bolt	2
5303-6	Plastic End Caps	4
6099	Danger Label	1

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3275 North B Avenue
Kissimmee, Florida 32758

TUNING INSTRUCTIONS FOR 10 METER AMATEUR ANTENNA MODEL HOT-10

GENERAL: To obtain maximum transmitting and receiving range, your mobile antenna should be carefully tuned after completing the installation. All Hustler antennas are adjustable for optimizing the antenna to peak performance on your vehicle. The easiest and most reliable method is with an SWR bridge connected in the coax feedline, as illustrated. Use a reliable bridge - one of known performance. Do not use field strength meters.

GROUNDS: The metal car body supplies the ground plane in mobile operation. For reliable performance of the antenna, a good, low resistance, connection must exist between the coax braid (shield) and car body at the base of the antenna. Tighten all connections or connectors securely, including hardware attaching the mount to the car body. If the antenna is a removable type, tighten the antenna securely to its mounting assembly.

TUNING: Tune the antenna to 28,600 MHz for phone operation or 28,050 for CW operation by checking the SWR and adjusting the tip rod for minimum SWR. Loosen the setscrew, start with the rod bottomed in the antenna and carefully note the SWR. In increments of 1/16" lengthen the rod until best SWR, lowest reflected power, is obtained. In some installations, it may be necessary to shorten the rod. Either grind off or score the rod with the edge of a file and snap off the excess. Trim any burrs.

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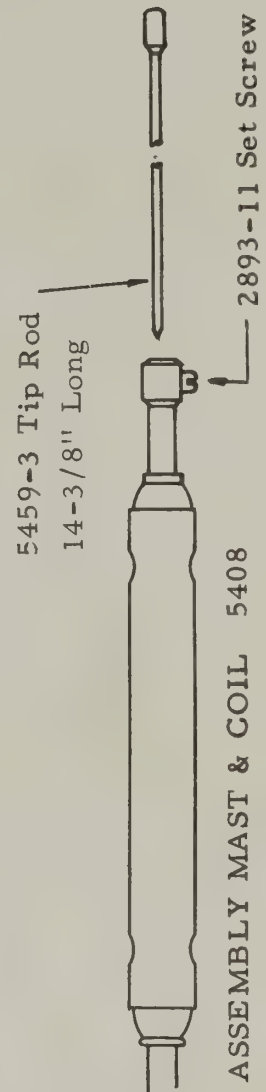
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HUSTLER ANTENNAS MAY BE PROTECTED BY ONE OR MORE
NEW-TRONICS PATENTS: 3287732, 3513472, 3327311, 3419869,
3599214, 3873985, 3582951, 1017857 (Canada).

INSTRUCTIONS FOR INSTALLING HUSTLER 10 METER MOBILE ANTENNA MODEL HOT-10

The mount attaches to the trunk lip at approx. the center of the trunk lid on the driver side.

Raise the knob on the mount by turning it counter clockwise. Slip the mount onto the trunk lip with the leg of the bracket under the lip all the way. Screw down the knob securely to enable the turned up grounding edges of the bracket to bite thru the paint on the underside of the trunk lip to make a definite ground connection.

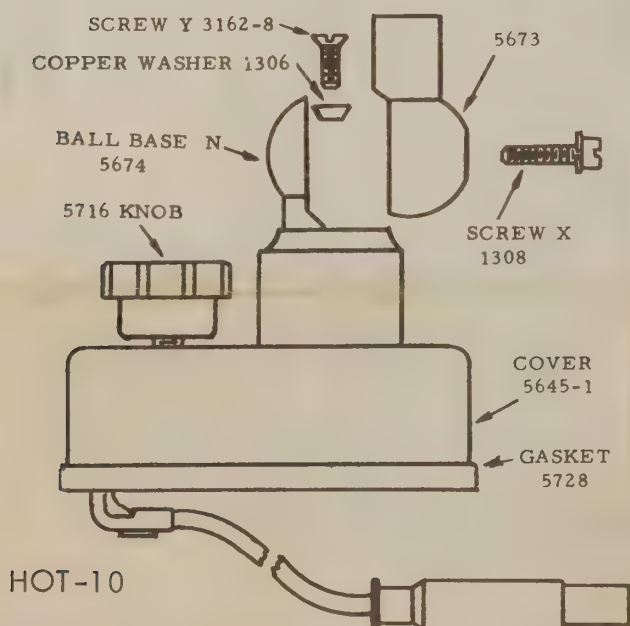
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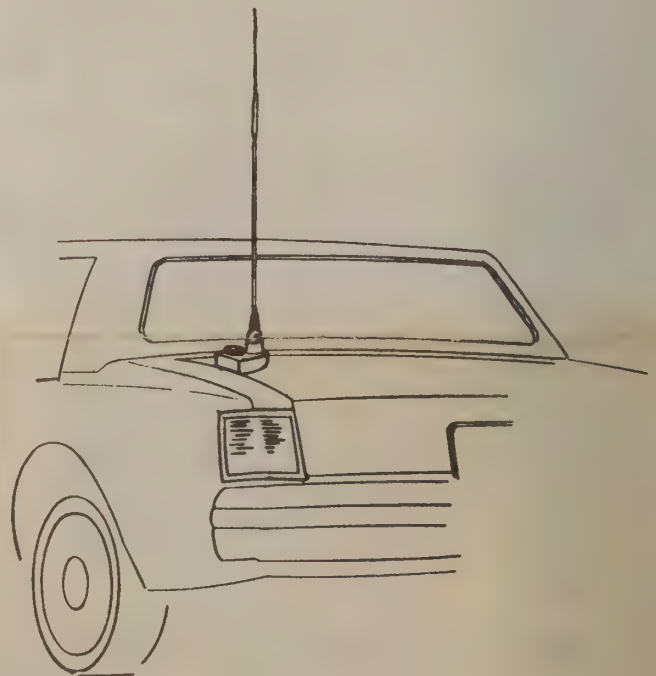
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Kit No. 6206

6205



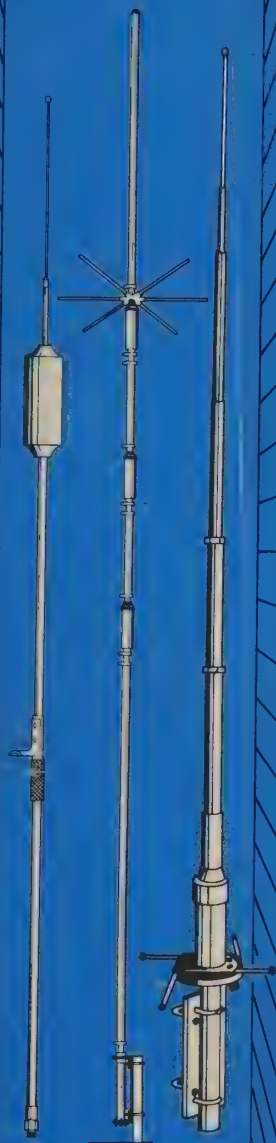
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NEW-TRONICS CORP.

15800 COMMERCE PARK DRIVE
BROOK PARK OHIO 44142



The Standard of Performance



AMATEUR
ANTENNA
PRODUCTS

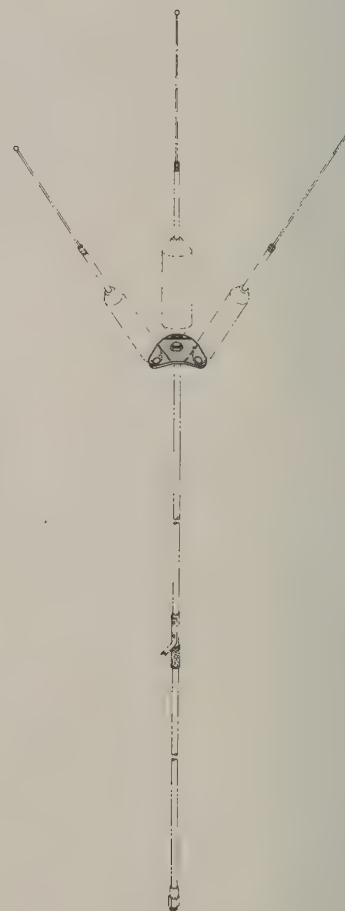
NEW

HUSTLER

VP-1

**HF MOBILE
TRI-BAND ADAPTOR**

NEW



Enjoy the convenience of automatic bandswitching using any three Hustler H.F. mobile resonators. Model VP-1 adapts any Hustler H.F. mast (MO-1, MO-2, MO-3) to tri-band operation easily and quickly.

Guying to the front of your vehicle is recommended, especially when Hustler Super Resonators are used.

HF

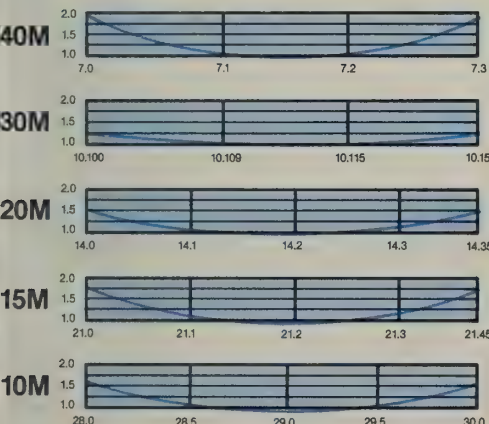
Verticals

6-BTV

Six Band Vertical HF Fixed Station Antenna

Covers 10, 15, 20, 30,
40, and 75/80 meters

- Bandwidth at its broadest! VSWR 2:1 or better at band edges on 10-40 meters. Up to 100 KHz on 75/80 meters.
- Power capability—full legal limit on SSB or CW
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability
- All sections 1 1/4 " heavy wall, high strength aluminum
- Extra heavy duty aluminum mounting bracket with low loss, high strength insulators
- Stainless steel clamps and hardware used throughout
- Easiest assembly and tuning of any multi-band vertical
- Feed with any length 50 ohm coax
- Use as ground mount with or without radials, or elevated mount with radials
- Overall height 24 feet
- Weight: 16.50 lbs.



6-BTV

Verticals

5-BTV

Five Band Vertical 10-15-20-40 and 75 or 80 Meters/Vertical Fixed Station Unmatched Reliability And Convenience In A Superior Multiband Design

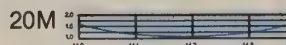
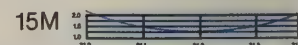
- Full band coverage on 10-40 meters (1.6:1 at band edges typical)
- Power capability: full legal limit CW and SSB
- Up to 100 kHz bandwidth on 75/80 meters
- Solid one inch fiberglass trap forms for optimum mechanical stability
- Heavy gauge aluminum with stainless steel hardware construction throughout
- Feed with any length 50 Ω coax

Specifications

SWR	1.15:1 at resonance	Wind Load	29 lbs. at 70 MPH
Mounting	(Ground mount / no radials / tower with radials) Vertical support to 1 3/4" O.D.	Length	25' 1"
		Weight	17 lbs.

5-BTV

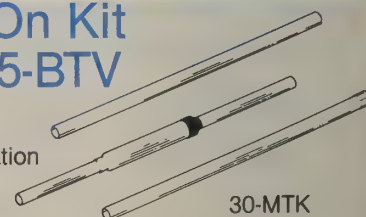
Bandwidths



30-MTK

30 Meter Add-On Kit for 4-BTV and 5-BTV

- Full band coverage
- Will not affect normal operation
- Easy installation
- Hardware included
- 4 • Weight: 5 lbs.



30-MTK

3-BTV

Triband Vertical 10-15-20 Meters

Economical Triband Performance in a Unique Design

- Two in one trap design
- Ground mounted, with or without radials
- Compact — only 12' tall; can be mounted on RVs for portable amateur applications
- Rugged stainless steel and aluminum construction
- Feed with any length 50 Ω coax
- Weight: 12 lbs.

3-BTV



4-BTV

Four Band Vertical 10-15-20-40 Meters Vertical Fixed Station

Only One Setting For Full Band Coverage

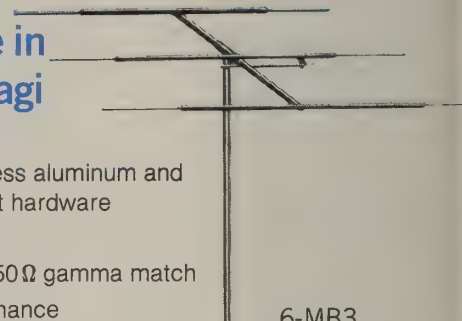
- Length 21'5"
- The same design as the rugged 5BTV (for 10-40 meter operation)
- SWR of 1.6:1 at band edges
- Exceptional mechanical construction with all sections 1 1/4" high-strength, corrosion-resistant aluminum and stainless steel hardware
- Guaranteed the easiest-to-assemble multiband vertical on the market
- Stainless steel clamps permit adjustment without damage to aluminum tubing
- Weight: 15 lbs.

4-BTV

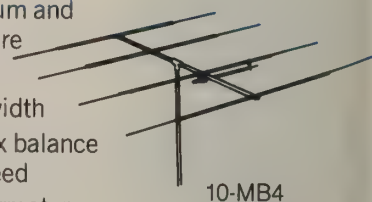


6-MB3**Three Element
Six Meter Yagi****Outstanding
Performance in
a Compact Yagi**

- 6 dB gain
- Rugged all seamless aluminum and corrosion-resistant hardware
- 28 dB F/B ratio
- Feed impedance 50 Ω gamma match
- 1.2:1 SWR at resonance
- 2 MHz bandwidth under 2:1 SWR
- Longest element: 10'
- 11'6" turning radius
- Weight: 7 lbs.

**10-MB4****10 Meter Yagi****Optimum Performance
In A Mechanically
Superior Design**

- Solid all seamless aluminum and corrosion-resistant hardware
- Excellent directivity
- Maximum gain and bandwidth
- Precise matching and coax balance with a balanced gamma feed
- Capped element ends for greater anti-mechanical resonance

**Specifications**

Gain	9.4 dB	Nominal Impedance	50 OHMS
F/B Ratio	28.0 dB	Length	16'6"
SWR at Resonance	1.2:1	Shipping weight	11 lbs.

Mobiles

MO-1/MO-2

6-10-15-20-40-75 and 80 Meter

Select From Quality Deck, Fender
Or Bumper-Mount Designs

- MO-1 for deck or fender mounting, folds at roof line 15" above base
- MO-2 folds at roof line 27" above base for bumper mounting
- Shakeproof clutch sleeve
- 54" mast functions as $\frac{1}{4}$ wave at 6 meters
- Masts made from highest-quality $\frac{1}{2}$ " O.D. brass and heat-treated aluminum
- Stainless steel base is threaded to fit all Hustler and other $\frac{3}{8}$ " x 24 thread ball mounts
- Weight: MO-1-1.2 lbs., MO-2-2.3 lbs.



MO-1 MO-2

HF Mobile Resonators

Standard Hustler Resonators ... Power rating 400Watts SSB

Part No.	Description	Weight	Approx. Bandwidth 2:1 SWR or Better
RM-10	10 Meter Resonator	.41 lbs.	150-250 KHz
RM-11	11 Meter Resonator	.41 lbs.	150-250 KHz
RM-15	15 Meter Resonator	.42 lbs.	100-150 KHz
RM-20	20 Meter Resonator	.46 lbs.	80-100 KHz
RM-30	30 Meter Resonator	.84 lbs.	50-60 KHz
RM-40	40 Meter Resonator	.84 lbs.	40-50 KHz
RM-75	75 Meter Resonator	1.05 lbs.	25-30 KHz
RM-80	80 Meter Resonator	1.05 lbs.	25-30 KHz

Super Hustler Resonators ... Power rating 1KW SSB

Part No.	Description	Weight	Approx. Bandwidth 2:1 SWR or Better
RM-10-S	10 Meter Resonator	1.0 lbs.	250-400 KHz
RM-11-S	11 Meter Resonator	1.0 lbs.	250-400 KHz
RM-15-S	15 Meter Resonator	1.2 lbs.	150-200 KHz
RM-20-S	20 Meter Resonator	1.25 lbs.	100-150 KHz
RM-40-S	40 Meter Resonator	1.82 lbs.	50-80 KHz
RM-75-S	75 Meter Resonator	2.11 lbs.	50-60 KHz
RM-80-S	80 Meter Resonator	2.11 lbs.	50-60 KHz



M-75 RM-75-S

G7-144

Two Meter Vertical

The Superior Performer For Fixed Station or Repeater Applications

- 7dB maximum effective gain provides more consistent pattern — even in marginal areas
- Extremely low angle stacked $\frac{5}{8}$ wave radiators provide superior gain
- Harsh environments do not affect mechanical or signal integrity
- High-strength aluminum and fiberglass construction for all-weather durability

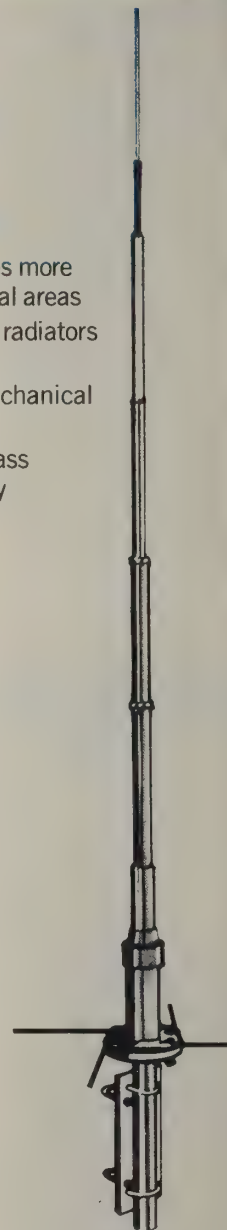
Specifications

Electrical

Radiation pattern	Omnidirectional, low-angle
SWR	1:15:1 at resonance
Power	1 kw FM
Nominal impedance (Shunt-fed, DC grounded)	50 OHMS

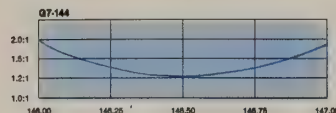
Mechanical

Vertical element	15' 4" long, 1 $\frac{1}{4}$ " telescopic to $\frac{3}{8}$ " O.D.
Radials	Four 20 $\frac{1}{4}$ " x $\frac{3}{8}$ " O.D.
Connector	Type "N"
Weight	10 lb.
Mounting	Vertical support up to 1 $\frac{3}{4}$ " O.D.



G7-144

Bandwidth



G6-144-B

Two Meter Vertical 6 dB Gain

Outstanding Design Delivers Dependable Performance

- Ideal for fixed or repeater operation
- Optimum gain with collinear phasing
- Low-angle radiation for optimum signal
- Constructed of high-strength aluminum
- Totally self-supporting design

Specifications

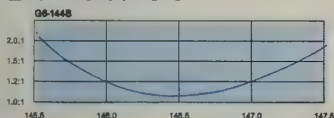
Electrical

Radiation	Omnidirectional
Nominal impedance	50 OHMS shunt fed DC grounded
SWR	1.15:1 at resonance
Power	1 kw FM

Mechanical

Vertical Element	9' 9" long, telescopic to $\frac{3}{8}$ " O.D.
Radials	Four 20-13/16" x 3/16" O.D.
Connector	SO-239
Windload:	26 lbs. at 100 MPH
Wind survival	100 MPH
Mounting	Vertical support to 1 3/4" O.D.
Weight	6.8 lbs.

Bandwidth



G6-144B

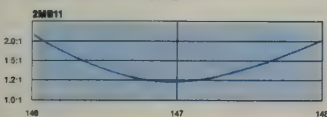


2-MB11

11-Element Yagi

- Forward gain < 13 dB • F/B Ratio < 27 dB
- Nominal impedance — 50 OHMS • SWR — 1.2:1 or better
- Beamwidth — 36°, 3dB • Length — 12'
- Turning radius — 72" • Wind survival — 100 MPH
- Weight — 6.5 lb

Bandwidth



2-MB11



VHF

Mobile Gain

CGT-144

Trunk Lip Mount

For The Ultimate In Reliable 5.2dB Collinear Mobile Performance

- 5.2dB Gain — absolutely the highest gain mobile available
- $\frac{5}{8}$ wave phased over $\frac{1}{4}$ wave design
- Optimum low angle radiation pattern
- Heavy-duty trunk lip mount features 180° swivel ball for vertical positioning
- Supplied with 17' top-quality low-loss coaxial cable (connector installed)
- No drilling required, mount suitable for any surface or angle

Specifications

SWR	1.15:1 at resonance	Power	200 Watts FM
Bandwidth	6MHz (1.5:1 SWR)	Length	7'1" (incl. mount)
		Weight	3.34 lbs.

CGT-144

CG-144

Antenna Only

- Identical electrical characteristics as CGT-144
- Supplied in resonant length
With $\frac{3}{8}$ " \times 24 thread base for ball mounts (mount and cable not included)
- Length: 7'1"
- Weight: 1.84 lbs.

CG-144

MKR-2

Radial Kit

- For use in converting Hustler series-fed mobile VHF antennas to fixed station operation
- Performance comparable to much higher-priced base stations
- Suitable for permanent local QSO or temporary field use
- Heavy-duty zinc-plated mast bracket and hardware — three decoupling radials
- Accepts any VHF antenna with standard $\frac{3}{8}$ " \times 24 thread base
- Weight: 2 lbs.

MKR-2

BBLT-144A

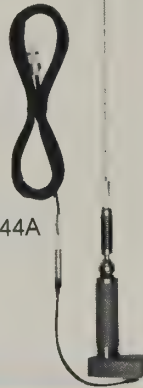
Trunk Lip Mount

- Designed for maximum signal radiation at lowest SWR
- Field-adjustable from 143-149 mHZ
- Heavy-duty spring and radiator combat detuning/flutter at highway speeds
- Shunt-fed for static suppression, reduced noise
- No drilling required to install
- Adjustable ball mount ensures correct vertical positioning
- 17' of low-loss coax with connectors furnished

Specifications

SWR	1.1:1 at resonance
Height	4'4" (Antenna plus mount)
Power	200 Watts FM
Weight	2.76 lb.

BBLT-144A

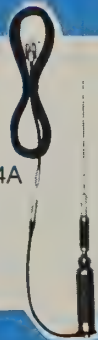


BBL-144A

Roof Mount

- The same reliability as BBLT-144A
- Quick assembly, requires $\frac{3}{4}$ " hole on a flat surface
- 17' low-loss coax with connectors furnished
- Weight: 2.6 lbs.

BBL-144A



MAG-2

Magnetic Mount

- Used for above BBLT-144A and BBL-144A antennas
- Furnished with 12' high quality RG-58/U coax with PL-259 connector installed
- Weight: 2 lbs.

VHF

Mobile Gain

SGM-2

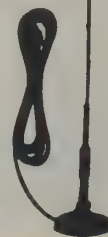
2 Meter Magnetic Mount

- $\frac{5}{8}$ wave design ensures a consistently clear signal
- 3.4 dB gain
- Rugged 17-7 PH tapered stainless steel radiator minimizes flutter
- Swivel ball for vertical positioning
- Chrome plated base assembly houses a powerful ceramic magnet designed for maximum pulling strength
- Furnished with 12' high quality RG-58/U coax with PL-259 connector installed

Specifications

VSWR	1.2:1 at resonance
Power	100 Watts FM
Length	4'2"
Weight	2.5 lbs.

SGM-2



SF-2

Mast Only

- Mast as depicted with SGM-2
- $\frac{5}{8}$ wave, stainless steel construction
- Weight: 3.9 lbs.

SF-2

MAG-1

Magnetic Mount

- Accepts most flexible antennas to 55" long with $\frac{3}{8}$ " x 24 thread base
- Weight: 2.0 lbs.
- Furnished with 12' high quality RG-58/U coax with PL-259 connector installed



MAG-1

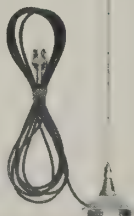
Unity Gain

UGM

Magnetic Antenna

- Extend the range of handheld or portable radios
- 140-500 MHz, unity gain
- High efficiency, permanent magnet assembly with protective mylar cover
- Supplied complete with 7' mini-coax, BNC connector and frequency cut chart
- Stainless steel tip rod and triple chrome plated magnet assembly
- Weight: 1 lb.

UGM



UHT-1

Roof/Deck Mount

- Designed for rapid installation in a $\frac{3}{4}$ " hole on any flat surface
- VHF-UHF performance (140-500 MHz) possible with trimmable radiator
- Trim chart and 15' of top-quality cable furnished with connectors
- Weight: 1.2 lbs.

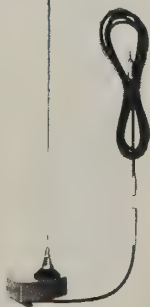


UHT-1

THF

Unity Gain/Trunk Lip Mount

- VHF-UHF performance
- Field-adjustable from 140-500 MHz depending on the length user selects
- 17-7 PH stainless radiator cut to $\frac{1}{4}$ wave for unity gain
- No drilling required for installation
- Furnished ready to install (trim chart included) with low-loss coax and connector included
- Weight: 1.5 lbs.



HT

HSDs/HMDs

Flexible HT Antennas

- Helical radiators available in standard or compact length
- Power handling capability of 35 watts at 50 ohms
- Factory tuned for minimum SWR
- Supplied with BNC connector
- Moisture resistant with non-shorting flexibility to -35°F for all-weather use

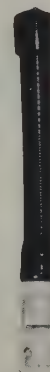
HSD-144	6"	144-149 MHz
HSD-420	6"	420-450 MHz
HMD-144	4"	144-149 MHz
HMD-220	2"	220-224 MHz
HMD-420	2"	420-450 MHz



HSD-144



HSD-420



HMD-144



HMD-220



HMD-420

UHF

Verticals

G6-440

440 MHz Fixed Station Antenna

The Superior Performer
for Fixed Station or
Repeater Applications

- 6 dB gain for maximum effective range
- Stacked $\frac{5}{8}$ wave low angle radiators for consistent pattern
- High strength fiberglass and aluminum

Specifications

Electrical

Frequency	430-450 MHz
Bandwidth	18 MHz under 2:1 VSWR
Gain	6 dB

Mechanical

Wind Survival	120 mph
Length	88"
Weight	5 lbs.

G6-440



G7-220

220 MHz Fixed Station Antenna

- 7 dB omnidirectional gain
- Special design for lowest-possible angle and maximum efficiency
- Highest-quality materials for top durability and weather-resistance
- DC-grounded radiator

Specifications

SWR	1.2:1 at resonance
Power	1 kw FM
Length	10' 2"
Impedance	50 OHMS
Radials	Four 14 $\frac{3}{4}$ " x 3/16" O.D.
Connector	Type "N"
Windload	26 lbs. at 100 MPH
Mounting	Vertical support up to 1 $\frac{3}{4}$ " O.D.
Weight	7.0 lbs.

G7-220



UHF

Mobiles

CGT-220

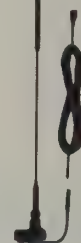
The Ultimate in 220 MHz Collinear Mobile Performance

- 1 1/4-meter mobile gain antenna with trunk lip mount, features swivel ball for vertical positioning
- No drilling installation, simply tighten set screws to the underside of trunk lid
- Stacked collinear design assures maximum gain at the horizon
- Easy installation and tuning allows for a VSWR of under 1.15:1 at resonance
- Supplied with 17' low loss RG-58/U coax with PL-259 connector installed

Specifications

Gain	5.2 dB
Bandwidth	4 MHz
Power	200 Watts FM
Height	4'10"
Weight	3.25 lbs.

CGT-220



CG-220

1 1/4-Meter Mobile Gain Antenna

- Identical electrical characteristics as CGT-220 listed above
- Collinear design—5/8 wave phased over 1/4 wave
- Supplied with 3/8" x 24 threaded base for use with standard ball mounts or other compatible Hustler mounts

Specifications

Gain	5.2 dB
Bandwidth	4 MHz
Length	4'9"
Weight	1.50 lbs.

CG-220

SF-220

3.4 dB Gain

- $\frac{5}{8}$ wave
- Reliable, high performance design
- Fits all standard $\frac{3}{8}$ " \times 24 thread mounts

Specifications

SWR	1.2:1 at resonance
Power	100 Watts maximum
Radiating	17-7PH tapered stainless steel
Length	2' 7"
Weight	0.87 lb.

SF-220



MAG-1

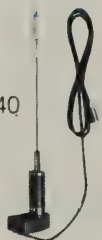
Magnetic Mount

- Accepts most flexible antennas to 55" long with $\frac{3}{8}$ " \times 24 thread base
- Weight: 2.0 lbs.

BBLT-440

- Collinear $\frac{5}{8}$ over $\frac{5}{8}$ wave trunk lip antenna
- 438 - 450 MHz
- 5 dB gain
- Bandwidth 10 MHz, SWR 2:1
- Feed impedance — 50 OHMS
- 200 Watt power rating
- Stainless steel tip rod
- Furnished with 17' low-loss coax, and connector
- Weight: 2.76 lbs.

BBLT-440



MAG-3

Magnetic Mount

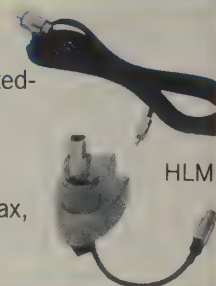
- Used for above BBLT-440 antenna
- Furnished with 12' high quality RG-58/U coax
- Weight: 2 lbs.

Accessories

HLM

Trunk Lip Mount

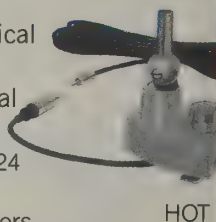
- Designed specifically for hatch-and-slanted-back vehicles
- Built-in 180° adjustable swivel, $\frac{3}{8}$ " \times 24 thread bases to 55" long
- Furnished with 17' of quality low-loss coax, connectors installed
- Weight: 1.7 lbs.



HOT

Trunk Mount

- Easy antenna on/off by spinning knob
- Cannot be removed while trunk closed
- Designed for superior mechanical/electrical performance
- Features 180° swivel for optimum vertical positioning
- Accepts most flexible antennas with $\frac{3}{8}$ " \times 24 thread base to 55" long
- 17' of quality low-loss coax with connectors furnished
- Weight: 1.9 lbs.



TLM

Trunk Lip Mount

- No holes required to install
- Accommodates most flexible antennas with $\frac{3}{8}$ " \times 24 thread bases to 55" long
- 17' of top-quality coax furnished with connectors installed
- Weight: 1.86 lb.



GCM-1

Gutter Clamp Mount

- Deluxe heavy-gauge triple chromeplated brass
- Applicable with most types of metal gutters
- Total electrical integrity ensured with solid construction and grounding
- Accepts most flexible antennas with $\frac{3}{8}$ " \times 24 thread base up to 55" long
- 180° swivel ball for optimum vertical positioning
- Weight: 0.8 lbs.



RVM

Recreational Vehicle Mount

- Heavy duty design for vertical sidepanel/roof mounting
- "Quick spin" knob for rapid removal or laydown
- Optimum vertical positioning with 180° swivel
- Furnished with 17' of top-quality coax, including connectors, grommet, and hardware
- Accepts most flexible antennas with $\frac{3}{8}$ " \times 24 thread base up to 55" long
- Weight: 1.9 lbs.



MM-1

Universal Cowl Mount

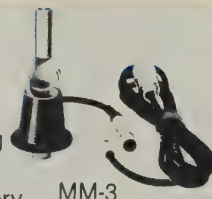
- Installs on any flat surface, or angle, in a 1" hole
- Positive-locking split ball swivels to 180° for best vertical positioning
- Accepts most flexible antennas to 55" long with $\frac{3}{8}$ " \times 24 thread base
- Weight: 0.36 lbs.



MM-3

Universal Mount

- Top Hustler quality mount features 180° swivel for optimum vertical positioning
- Accepts most flexible antennas to 55" long with $\frac{3}{8}$ " \times 24 thread base
- 17' highest-quality low-loss coax with factory installed connectors
- Weight: 1.3 lbs.



TGM-1

Trunk Groove Mount

- Easily installed in hidden area of trunk groove
- 180° adjustable split ball for optimum antenna positioning
- All hardware furnished
- Accepts most antennas with standard $\frac{3}{8}$ " \times 24 thread to 55" in length
- Weight: 0.74 lbs.



Accessories

Economy Series Mounts

C-32 Chrome-plated Ball Mount

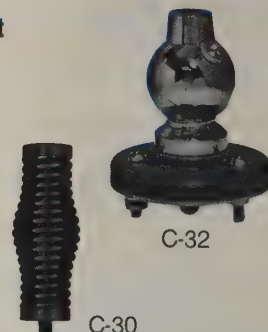
- Weight: 0.84 lbs.

C-30 Chrome-plated Spring

- Weight: 1.2 lbs.

C-29 Stainless Steel Spring

- Weight: 1.2 lbs.



C-32

C-30

Stainless Steel

Designed and Built For Dependable, Long-Life Performance

- Exceptional performance and quality
- 180° adjustable reinforced stainless ball
- Professional quality Cycloc bases for greatest mechanical stability
- Exclusive "C" backup plate allows external installation
- Supplied with all mounting hardware and cork pad
- Applicable with all Hustler and other $\frac{3}{8}$ " \times 24 thread antennas



SSM-1

SSM-1 Professional Ball Mount and Spring – Weight 2.53 lbs.

SSM-2 Ball Mount – Weight 1.3 lbs.

SSM-3 Stainless Steel Spring with Coupling Stud
– Weight 1.21 lbs.

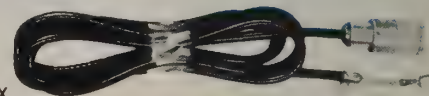
Coaxial Cable Leads

LU-216 Lead

- 18' of high quality RG-58/u coax
- PL-259 connectors (both ends)
- Weight: 0.76 lbs.

L-14-144 Lead

- 12' of RG-58/u coax
- PL-259 connector on one end and split lead with lugs on the other
- Weight: 0.51 lbs.



L-14-144

L-14-240 Lead

- Identical to L-14-144, with 20' of coax

- 20 • Weight: 0.71 lbs.

BM-1

Bumper Mount

- Heavy-duty stainless steel strap fits bumpers to 18" vertical height
- Secured by two heavy "J" bolts
- Needs only 5/16" clearance with car
- 180° adjustable ball for best vertical positioning
- Accepts any Hustler $\frac{3}{8}$ " \times 24 thread mobile antenna
- All hardware included
- Weight: 2.7 lbs.



BM-1

RSS-2

Stainless Steel Resonator Impact Spring

- For application with listed HF Mobile Antennas (between) resonator and mast.
- Braided center pigtail to prevent detuning even at highway speeds.
- Supplied ready-to-install.
- Standard $\frac{3}{8}$ " threads.
- Shipping weight: 0.4 lbs.



RSS-2

QD-1

Quick Disconnect

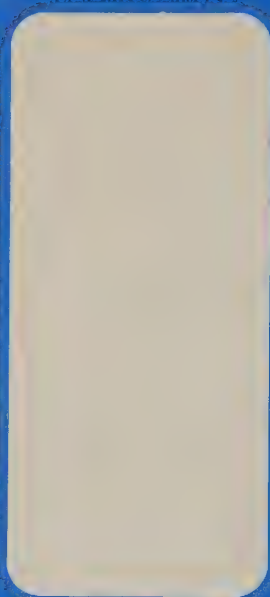
- Especially designed to prevent ice or dirt "freezeup."
- Machined to close internal tolerances to prevent antenna loss by vibration.
- Made of 100% stainless steel, with a convenient press-and-twist antenna release.
- $\frac{3}{8}$ " \times 24 thread male and female ends, accommodates antennas of any length.
- Shipping weight: 0.4 lbs.



QD-1

NEWTRONICS ANTENNA CORP.

One Newtronics Place
Mineral Wells, Tx. 76067
(817) 325-1386



WARNING

INSTALLATION OF THIS PRODUCT NEAR POWER LINES IS DANGEROUS. FOR YOUR SAFETY, FOLLOW THE INSTALLATION DIRECTIONS.

I. INFORMATION CONCERNING THE RISK OF ELECTROCUTION

Power lines that connect electric service to your house carry more than enough voltage required to KILL a person by electrocution. Most often these electric lines run overhead along property lines with one or more lines coming off at a supporting pole and running across your property to a point on, or near the roof of your house. In some cases power lines may also be buried in the ground.

Every year many careless people are killed, or seriously injured, even though they are aware of the hazard of touching or allowing something they are holding to touch electric wires. Many of these accidents involve people who are installing (or removing) some type of antenna which is often mounted on a long metal supporting pipe that has several guy wires and cables attached to it. These assemblies are cumbersome and, therefore, difficult and unsafe for inexperienced people to handle even under the best conditions. The slightest wind, rain, too bright sunlight, too little light, a sloping roof, or other unsure footing, and other characteristics of the installation site, along with many other factors can serve to greatly increase the hazard of possible contact with power lines.

FOR YOUR SAFETY GET PROFESSIONAL HELP WITH YOUR ANTENNA INSTALLATION AND READ AND OBSERVE THE SAFETY PRECAUTIONS OUTLINED BELOW.

II. TYPES OF SUPPORT STRUCTURES

Hustler base station antennas are designed to attach to a mast or pipe not supplied with the antenna. The types and sizes are given in the assembly instructions for each model.

III. SITE SELECTION

A. It is recommended that the following guidelines be used for SAFETY in selecting a site for the installation.

1. Figure the height of the total antenna assembly including supporting structures.
2. Select a site for the base of the structure that is a distance at least twice the total height away from the nearest power line.

A site which meets these safety criteria may not be practical either because of available space or because performance of the antenna may be impaired. IF THIS SITUATION OCCURS, DO NOT ATTEMPT TO INSTALL THE ANTENNA YOURSELF. GET A PROFESSIONAL INSTALLER TO DO IT FOR YOU.

- B. Height limitations are placed on antenna installations by the FCC, normally at 20 meters above ground or 10 meters above a building for CB and 200 feet above ground for Amateurs.

There may be additional restrictions or rules that are different which apply to your specific site, especially if you are near an airport. Check the FCC rules and regulations. Also, there may be local ordinances with which you must comply.

- C. There are several different mounting methods used in antenna installations. Recommendations for best performance appear in some of the instructions covering specific models of Hustler antennas. Common locations include:

1. Roof
2. Chimney
3. Side of building
4. Free standing

The characteristics of your particular site and the type of antenna involved must be considered to determine which is most suitable. Since a determination based on performance may not be compatible with the SAFETY CRITERIA of A above, it is recommended that a professional select the site and make the antenna installation.

IV. SAFETY PRECAUTIONS

- A. If you are not experienced in installing antennas you are advised to SEEK PROFESSIONAL ASSISTANCE.
- B. Select the location to install your antenna with safety in mind. Again, you are urged to obtain professional help for a safe installation, as well as for best performance. More information concerning site selection is contained in a previous section.
- C. Call your electric power company. Advise them of your installation plans. FOR YOUR SAFETY, ask them to provide assistance and shut-off power temporarily during the installation or removal process.
- D. Plan your procedure carefully so that anyone helping knows what he is supposed to do and when. You cannot afford confusion with a cumbersome assembly half way up or down. A few tips that may be helpful are:
1. Install your antenna only in good weather and in daylight. Remember, a small amount of wind or rain or poor visibility greatly increases the possibility of an accident.
 2. Assemble your antenna following individual assembly instructions and attach it to the mast, if used, on the ground near the location planned for the mounting base. Attach the necessary length of coaxial feed cable.

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3. If the antenna is to be mounted on a mast of one or more sections of metal tubing or pipe, the assembly should be guyed using three guy wires per level at about 10-foot intervals starting just below the attachment point of the antenna. Estimate lengths needed and attach one end of each guy wire to the mast and lay along the mast on the ground. When all are attached, temporarily tie them in a bundle along with the coax cable near the base of the mast to keep them from flopping about during erection.
4. A non-conductive rope can be attached near the top of the mast to be held by a person standing away from those erecting the assembly and used to guide it away from power lines in the event the assembly starts to fall.
5. Before you raise the antenna, install the mounting bracket and, if the antenna is to be guyed, any anchor bolts at calculated guying points.
6. THERE IS AN EXTRA WARNING LABEL INCLUDED WITH EACH ANTENNA. ATTACH IT IN A CLEARLY VISIBLE SPOT ON THE BASE OF ANY SUPPORTING STRUCTURE USED.
- E. If the antenna starts to fall and you can't control it, let go fast. Don't hang on trying to recover, let it fall. Remember, should the antenna, mast, cable (even though insulated for low voltage) or guy wires contact a power line the whole assembly will become charged with voltage and anyone touching it can provide an electrical path to ground and be instantly electrocuted.
- F. Should the assembly accidentally come in contact with power lines, DON'T TOUCH IT. CALL THE POWER COMPANY.
- G. If someone comes in contact with the electric power, DON'T TOUCH HIM OR YOU WILL ALSO BE ELECTROCUTED. FIRST, remove the victim from contact with the electricity. Use a DRY board, stick or rope. Call for medical help and apply artificial respiration if the victim is not breathing.

INSTALLATION INSTRUCTIONS
HUSTLER 4-BTV TM TRAP VERTICAL

W A R N I N G

INSTALLATION OF THIS PRODUCT NEAR
POWER LINES IS DANGEROUS

FOR YOUR SAFETY, FOLLOW THE INSTALLATION DIRECTIONS

GENERAL DESCRIPTION:

The Hustler 4-BTV is a four band trap vertical antenna providing an omnidirectional pattern. The 4-BTV is designed as a self-supporting vertical to provide optimum operation in the 10, 15, 20 and 40 meter bands. It can also be adapted to operate in the 75 meter band. This antenna is designed for installations with restricted space.

The Hustler 4-BTV provides electrical selection of bands through the use of optimum Q traps, which are individually and precisely tuned and internally sealed at the factory. Tampering with the traps will render your warranty null and void. The traps are parallel tuned circuits which provide efficient isolation between the vertical sections, permitting multi-band operation. Broad band operation over the entire ham band at very low SWRs is possible in a proper installation. Operation in the 75/80 meter band is provided by installing the appropriate resonator on top of the 4-BTV.

The Hustler 4-BTV was designed to provide optimum performance from both an electrical and mechanical standpoint. Mechanically, this antenna boasts a heavy duty base and heavy duty aluminum tubing. The mechanical assembly is accomplished with all stainless steel hardware. The use of clamps permits readjustment if necessary, and allows individual peaking of each band. The mechanical construction is such that guying is not ordinarily needed. If the 75 meter resonator is attached to the 4-BTV, it may be desirable to guy the antenna above the 20 meter trap with small diameter polypropylene rope.

The performance provided by the Hustler 4-BTV is better than any other antenna of this type. Broad banding is such that one measurement and setting permits both phone and CW operation. The antenna provides a nominal 52 ohm base impedance when installed and tuned according to the instructions. The radiation efficiency is equivalent to, or greater than, other trap verticals.

STEP BY STEP ASSEMBLY:

1. Check the parts against the package contents listed on the following page.
2. Install mounting bracket on the support mast or stake. Tighten "U" bolts securely. Use lockwashers and 1/4"-20 hex nuts (heavy nuts). Use 1 1/4" I.D. water pipe or other very strong support.
3. Accurately cut radial lengths (if needed or desired) in accordance with radial length table (Fig. 6).

"PACKAGE CONTENTS"

<u>ITEM</u>	<u>QTY</u>	<u>PART NUMBER</u>	
1	1	4098	Bracket Assembly
2	1	4190	Top Tube Section 1-1/4" x 56"
3	1	4087-1	Lower Tube Section 1-1/4" x 72"
4	2	4087-2	Intermediate Tube Section 1-1/4" x
5	1	4090-1	Ten Meter Trap
6	1	4090-2	Fifteen Meter Trap
7	1	4090-3	Twenty Meter Trap
8	6	5481	Spider Tubes - 3/8" O.D. x 13"
9	1	4198	Accessory Kit Consisting of the Following:

(A) IN PLASTIC BAG

10	7	3993	Clamps
10 (a)	2	3488-6	"U" Bolts
11	7	2194-32	Round Head Screws 1/4-20 x 3/4"
12	5	2491-5	Lockwashers - 1/4" split
13	7	4243-1	Square Nuts - 1/4-20
14	1	3609-1	Spider Hub
15	1	2194-15	Screw - 6-32 x 3/4"
16	7	4274-6	Keps 6-32
17	3	4274-1	Keps 10-32
18	5	2382-32	Nuts - 1/4-20 x 7/32" thick
18 (a)	1	4513	Terminal Lug - 1/4" hole
18 (b)	1	4514	Terminal Lug #10 hole
18 (c)	6	3162-9	Flat Head Screws - 6-32 x 5/8"
23	2	2233-5	Washer 1/2" O.D. x 9/32" I.D.
24	6	2233-26	Washer 1/2" O.D. x 3/16" I.D.

(B) IN KRAFT BAG FOR RADIAL MOUNTING

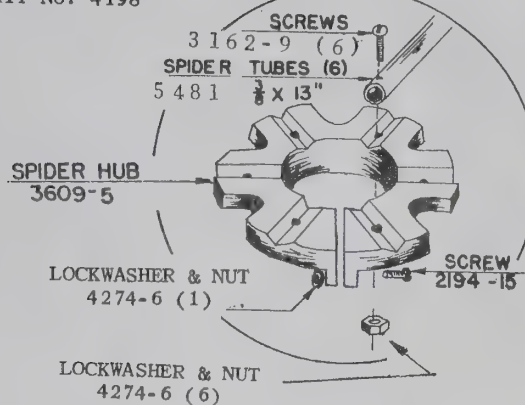
19	2	2700-7	Hex Head Bolt - 1/4-20 x 1-1/2"
20	8	2233-16	Washers - 5/8" O.D. x 1-1/4" I.D.
21	2	2491-5	Lockwashers - 1/4"
22	2	2382-32	Nuts - 1/4-20 x 7/32" thick
25	1	4457-1	This is a separate purchase used in conjunction with RM75/80 resonators.

FIGURE 1
4BTV

FOR INSTALLATION SEE INSTRUCTION
BOOKLET # 4260

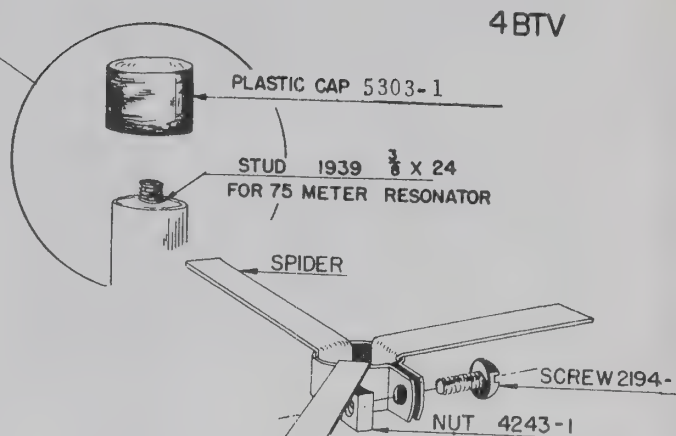
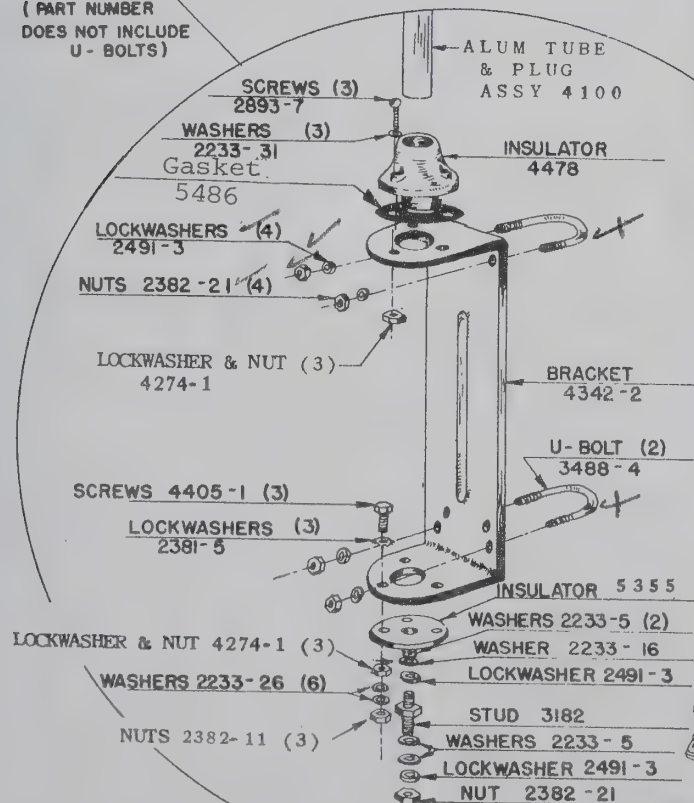
NOTE. ALL NUMBERS IN BRACKETS(.)
INDICATE QUANTITY

ACCESSORY KIT No. 4198

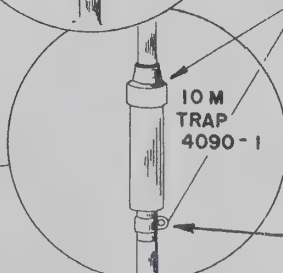
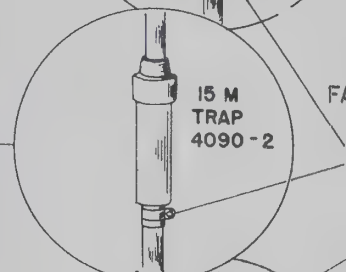
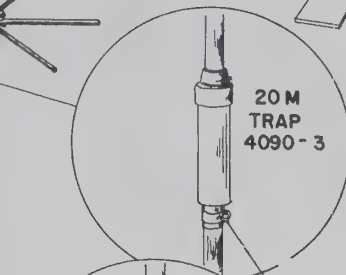


INTERMEDIATE TUBE SECTIONS
4087-2 1 1/4 x 20"

BRACKET ASSEMBLY 4098
FACTORY ASSEMBLED
(PART NUMBER
DOES NOT INCLUDE
U-BOLTS)



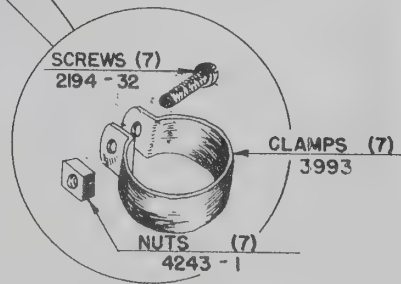
Spider assembly
#4457-1 used only
in conjunction with
RM-75/80 or
RM-75S/80S resonator



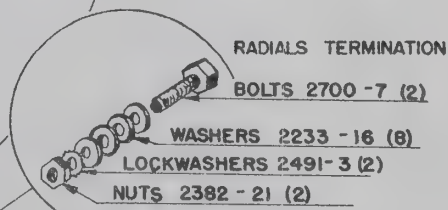
FACTORY ADJUSTED
TRAPS
DO NOT LOOSEN
CLAMPS

PLASTIC CAP
4082-1

Clamp on Traps
3993



LOWER TUBE ASSEMBLY 4087-1
1 1/4 x 72"



RECOMMENDED METHOD OF PREPARING COAX

Split End

Separate strands of braid with an awl, being careful not to break any.

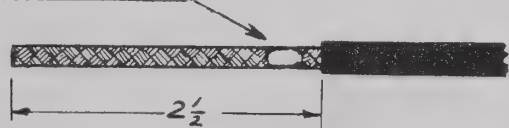


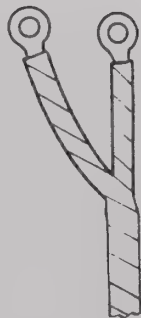
FIGURE 2

Draw center conductor out with an awl or dull pointed instrument.



FIGURE 3

Lug with 3/16" dia. hole on shield end.



Lug with 1/4" dia. hole on hot side.

FIGURE 4

Solder on the size lugs as indicated above. Tape tightly with plastic electrical tape. After installing coat with corona dope.

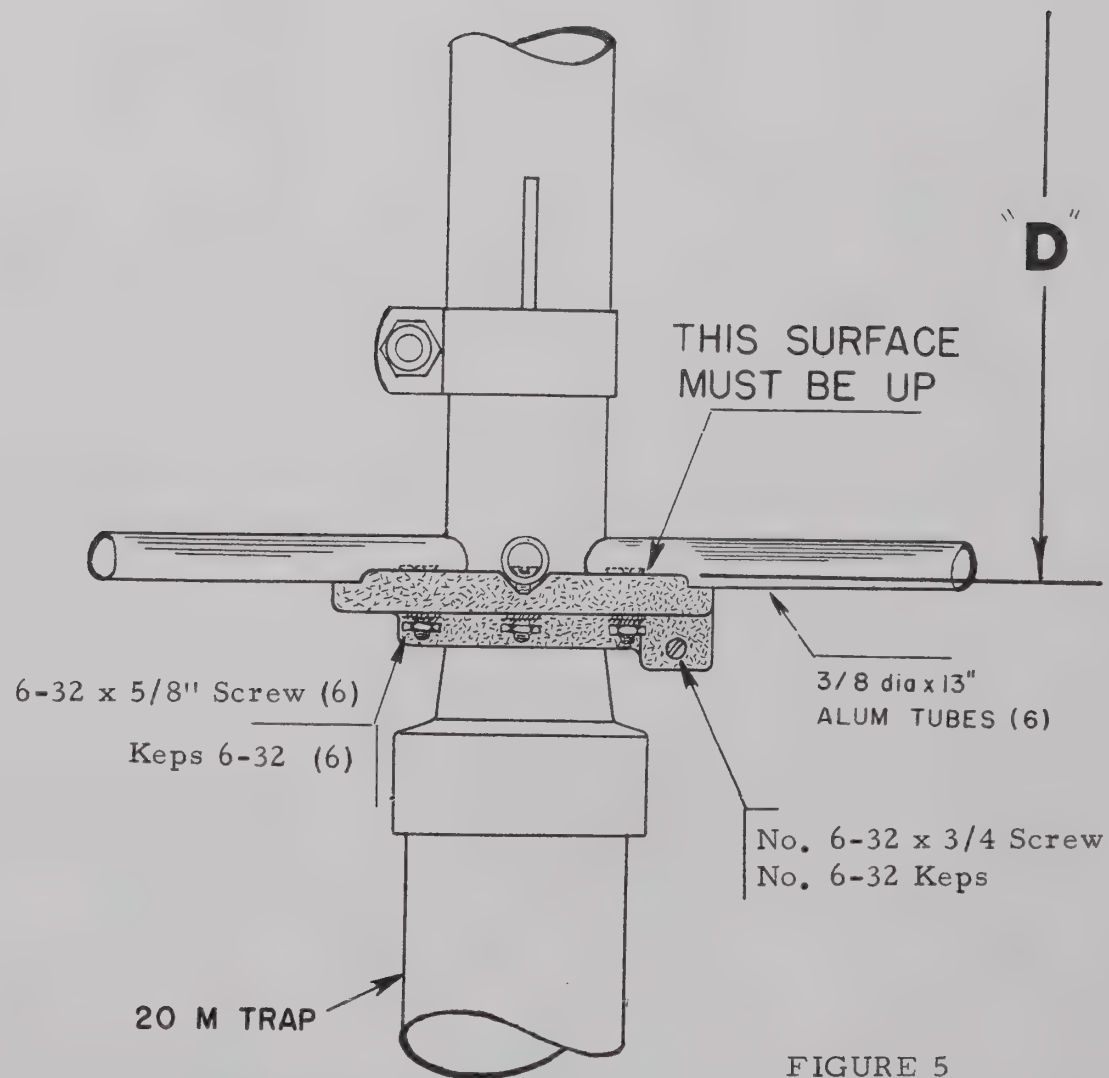


FIGURE 5

ILLUSTRATION SHOWING FEED LINE AND RADIALS CONNECTIONS

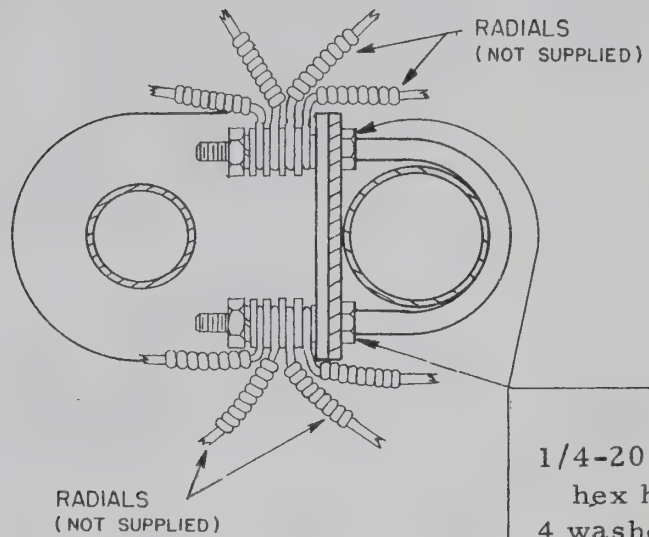
FIGURE 6

RADIAL LENGTH TABLE

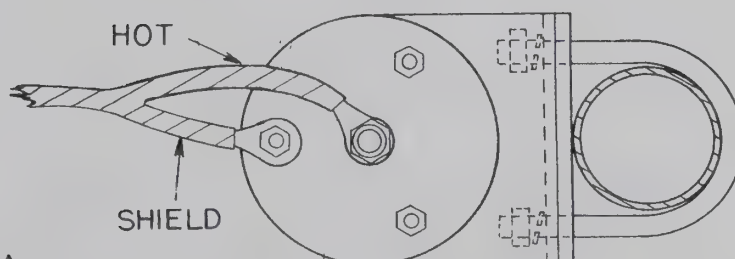
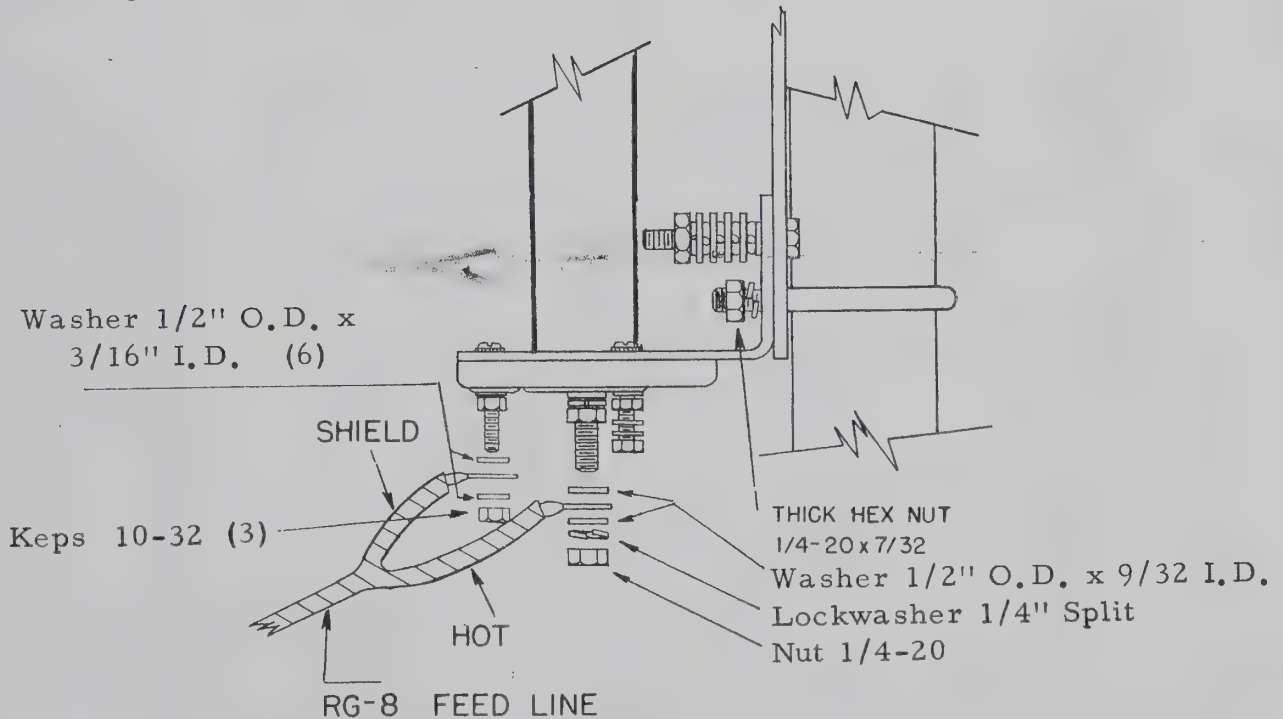
RADIAL LENGTHS FOR
4 BAND OPERATION

2 Each Required

10 Meters	8' 4"
15 Meters	11' 4"
20 Meters	16' 4"
40 Meters	32' 4"

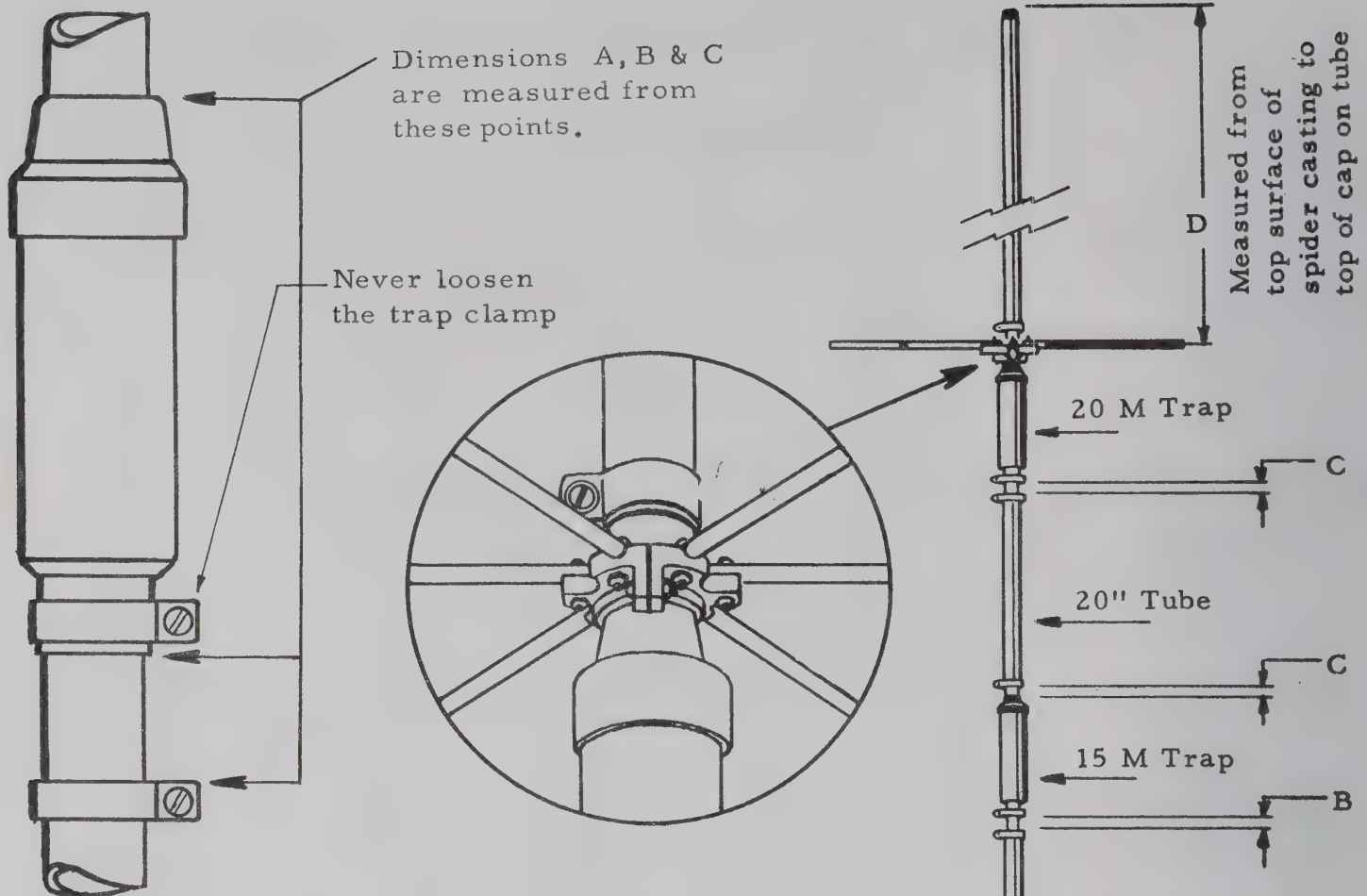


1/4-20 x 1-1/2
hex head bolts
4 washers 5/8 o.d.
1 lockwasher 1/4"
1 hex nut 1/4-20



4260-5 R11/78

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DIMENSION TABLE

Approximate dimensions

TYPE OF INSTALLATION	A	B	C	D
On a roof with 5 foot pipe and radials	2-1/8	2	1-7/8	61-1/8
On a metal tower with radials drooped 45 degrees	2	2	1-1/8	61-1/8
On ground with radials	1	1-5/8	1-1/16	62-1/8
On ground without radials	0	1/2	1-1/16	62-1/8

Above dimensions are in inches
Tuning may be necessary to obtain
resonance at desired frequency.

FIGURE 7

4"

4. Prepare split lead on coax in accordance with Figures 2 and 3. RG-8/U coax is recommended.
5. Install lugs on coax as shown in Figure 4 and weatherproof with electrical tape.
6. Install coax feed line and radials as shown in Figure 6.
7. After making all connections to the mounting bracket, a heavy protective coating such as Krylon clear spray would be very advantageous.
8. Assemble all 1-1/4" stainless steel clamps, using the 1-1/4"-20 x 3/4" screws and 1/4-20 square nuts.
9. Assemble the 3/8" x 13" tubes to the hub as shown in Figure 5, using the 6-32 machine screws, number 6 lockwashers and the 6-32 hex nut.
10. Install the 10 meter trap to the 1-1/4" x 72" tube, using one of the clamp assemblies. Set to Dimension A and Table in Figure 7, the measurement should be made at the end of the long tube and the bottom edge of the trap. Securely and carefully tighten the clamp.

IMPORTANT: THE PASTIC CAP IS THE TOP OF THE TRAP AND MUST BE INSTALLED IN THAT POSITION. THE CLAMP AT THE BOTTOM OF THE TRAP SHOULD NOT BE LOOSENED. THIS WOULD UPSET TRAP CALIBRATION.

11. Install 1-1/4" clamp at each end of one of the 1-1/4" x 20" tubes and slide over the tube of the 10 meter trap. Install 15 meter trap in the opposite end of the same tube and set both Dimensions B from Table in Fig. 7. The measurement should be made from the upper most edge of the plastic cap to the bottom edge of the 20" tube, and from the top of the 20" tube to the bottom edge of the 15 meter trap. Securely tighten clamps.
12. Install the second 1-1/4" x 20" tube, complete with clamps, on the 15 meter trap and then install the 20 meter trap in the top of that tube. Set to Dimension C from Table in Fig. 7, again measuring from the top of the plastic at the bottom of the tube, and from the top of the tube to the bottom edge of the trap.
13. Install spider assembly as shown in Figure 5. It should be flat against the top of the 20 meter trap cover. Securely tighten the 6-32 x 3/4" screw with lockwasher and hex nut.
14. Install the 1-1/4" x 56" tube to the 20 meter trap and set to Dimension D from Table in Fig. 7. Securely tighten clamps.
15. Each clamp should be installed near the edge of the tubing to obtain the best mechanical and electrical connection. Re-check all bolts to insure tightness. Re-check all Dimensions against Table in Fig. 7.

16. Install assembled antenna on mounting bracket and set the bottom Dimension A, from Table in Fig. 7, and securely tighten clamps. Never allow the mast on which a 4-BTV is mounted to extend above the bracket.

INSTALLATION: ***READ THE ATTACHED SAFETY WARNING ON LAST 2 SHEETS BEFORE PROCEEDING FURTHER***

An important part of any vertical antenna is its ground plane. While the Hustler 4-BTV was designed as a space saver, we recommend one of the following installations from a performance viewpoint.

1. For optimum performance, roof mount with radials. Roof mounting of the antenna will provide height which, in turn, will generally provide better transmission and reception.

The 4-BTV can be mounted on a ground mounted tower, heavy duty chimney clamp, wooden pole, short roof mounted tower or other suitable support assembly. Try to locate the antenna 10-15 feet away from metallic structures and 5-10 feet away from non-metallic structures.

CAUTION: Mounting the 4-BTV on towers, tripods, or large mast pipes, approximately a quarter wave in length, can often provide an upset to the counterpoise created by the radial system, and act as a vertical dipole instead of the desired ground plane. To correct this problem, the radial system must be R.F. isolated from the mounting structure. This may be done by using a non-conductive mounting mast, such as heavy wall fiberglass tube or fiberglass rod or by sliding a split piece of PVC pipe over the metal Mast. The coax or mounting bracket should not be directly grounded.

The 4-BTV installation is most easily accomplished by installing the base only to your support assembly. After connecting radials and feedline to the base, the 4-BTV can be attached to the base.

Using the radial length Table (Fig. 6) install two insulated wire radials for each band used. It is recommended that the radials be constructed of large diameter insulated wire, 14 gauge is usually ample. When radials are installed they should be equally spaced around 360° with radials of equal length opposite each other. Never bunch radials as one will detune the other. They should be attached to the base mount in accordance with Figure 6. Care should be taken to make a good electrical connection at the antenna bracket. When radials are used in a roof mount configuration, every attempt should be made to permit a 45° droop angle below horizontal. This is accomplished by choosing a mounting pipe or short tower long enough to make these angles possible. If space is limited, some compromise is permissible providing the droop angle is held between 10-60° below horizontal with radials fanned out as much as possible. If space is severely restricted, radials may be zigzagged or run in an "L" configuration avoiding near parallel wrap back less than 90°.

The importance of the ground system cannot be over-emphasized. If the instantaneous voltage curve of a vertical is studied, at a given instant, a voltage of a single polarity will be observed. The ground system must provide the voltage of the opposite polarity. If any resistance exists in the circuit, obviously the efficiency of the antenna will suffer. The ground or radial system must be considered as half the antenna.

When radials are used, high impedance will exist at the ends of the radials, and adequate insulation must be provided, or their purpose will be defeated. Tie them off using a non-conductive material such as polypropylene rope or heavy gauge fishing line. In a case where the antenna or the radials are mounted over or near metallic objects the radials must be insulated or mounted at least 6" over the roof.

2. Second Choice, ground mount with radials; if you are unable to mount the antenna in the preferred roof mount configuration, the second best choice would be that of ground mounting. In ground mounting it is important to choose a location reasonably free from obstructions such as houses, metal fences, trees, wires, vertical down spouts, aluminum siding, other antennas etc. Try to maintain at least a radius of 10 to 15 feet of clear area around the antenna. It is recommended that the 4-BTV be mounted on a 4 foot metal stake such as a 1-1/4" I.D. water pipe. Do not exceed this length. This stake should be buried in the ground with 18 inches left protruding. (Do not concrete or put into a pre-dug hole. Drive it into the ground.) Position the 4-BTV base on this pipe to a location not exceeding four inches of separation between earth and coax connection. Do not try to use a network of ground rods around the base of the antenna. If the ground supplied by this pipe is not sufficient, radials must be employed.

The radials in this type installation will provide a better overall performance than that of stake mount only. Very good performance can be expected, however, not as good as a proper roof installation.

On ground mount radials may be either buried a couple of inches below the surface or left on top of the ground, if no power equipment (such as lawnmowers) or pedestrian traffic will become entangled in the wires.

Using the radial length table, Fig. 6, install two insulated or bare wire radials for each band. It is recommended that the radials be constructed of large diameter wire; #14 gauge is usually sufficient. The radials should be spaced around the base 360° with radials of equal length opposite each other. Never bunch radials, as one will detune the other. They should be attached to the base mount in accordance with Figure 6. Any wire droop on the ground need not be of concern.

3. Least Desirable, ground mount without radials. If you do not have sufficient space and are unable to use a ground radial system, ground mounting of the antenna on a four foot ground stake driven into the ground with only 18 inches protruding, will provide good performance, which in turn, will be in direct ratio to the ground conductivity and soil conditions in your particular area.

In the ground mounted location, performance (SWR, Bandwidth, and Radiation efficiency) is directly related to ground conductivity. If the ground conductivity is good, you obviously will obtain better results. As stated previously, the 4-BTV was expressly designed to give you satisfactory performance even in this configuration. Therefore, if ground mounting without radials is a necessity, you can still obtain better performance from the 4-BTV than obtainable from any similar antenna.

NOTE: Adding more pairs of radials than the 2 per band prescribed in instructions, may result in obtaining better results for DX'ing.

Favorable soil conditions can be a reason that sometimes a ground mount using the soil as a ground plane may result in better DX'ing than a roof mount using only a pair of radials per band.

TUNING FOR ALL CHOICES:

The Dimensions given in the Table are approximate and will vary, depending on environment. To check antenna tuning, use a sensitive SWR bridge. (DO NOT USE A FIELD STRENGTH METER.) Using only sufficient power to obtain a full scale reading, check and record the SWR at the high, center and low edge of the bands. If the SWR reading is lowest at the high end, lengthen the related section of the antenna; if it is lowest at the low end, shorten this antenna section. Always attempt to get the very lowest SWR reading in the center of the band. Tuning in this manner will permit operation in both the phone and CW portions with a low SWR. If you favor one end of the band or the other, you can retune the antenna to provide the lowest SWR in that portion, if desired.

In the process of tuning the antenna, it is mandatory that you always start with 10 meters and work your way up the antenna. Tune 10 first, then 15, 20, and 40 meters last. Any adjustment made on 10 will affect the other bands. Any adjustment made of 15 will affect 20 and 40. By the same token, any adjustment on 20 will affect 40. Adjustment of the individual bands is as follows: 10 meters, adjust Dimension A; 15 meters, adjust Dimension B; 20 meters, adjust Dimension C; and 40 meters, adjust Dimension D.

It is not necessary to remove the bracket each time to adjust the antenna. It is only necessary to remove the antenna from the bracket. (If the desired SWR cannot be achieved, it is probably because of an insufficient counterpoise system or poor soil conditions.)

If resonance can be adjusted properly but a low SWR cannot be reached, then it is probably due to insufficient insulation at the ends of the radials, improper angle of the radials, or reflections from nearby resonant objects. A number of conditions may cause the resonance to shift from the factory dimensions, occasionally to the point that resonance cannot be reached within the normal range of adjustment; lengthening or shortening the radials may help to compensate for these conditions. Changing coax lengths or adjusting a tuner may make the SWR appear better but will not change the antenna, the final radiator, or its performance. When the antenna is tuned properly at resonance, little change in SWR will occur regardless of where the bridge is located in the line.

Never use an antenna tuner to tune the 4-BTV. Proper tuning of this antenna requires adjusting the 4-BTV sections. Use of a tuner only fools the transmitter and does not correct a problem at the antenna. The antenna system must be tuned properly at the antenna to radiate efficiently.

Filters should never be used in a coax line while trying to tune an antenna.

Be certain your transmitter is properly neutralized. If it isn't, the transmitter can be generating R.F. at another frequency which will show up as reflected power. The best check of neutralization is to load the transmitter into a 50 ohm R.F. dummy load with a power indicator in the line. Maximum power output will occur at the plate current dip if the neutralization is proper. If this condition does not exist, go through the neutralization procedures.

COAX FEEDLINE:

Preference is to use RG-8-A/U or RG-8/U foam filled coax. The correct length cable is the shortest practical length for your installation. When the 4-BTV is correctly installed and tuned, nominal impedance will be 50 ohms at resonance on each band. Tuners, baluns, transmatches and othe devices are not required and their inclusion in the system will only result in undesired loss. The split lead coax connection used on the 4-BTV has proven to be free of the many problems encountered with conventional coax male and female connector assemblies in outdoor use.

GUYING:

The 4-BTV is designed as a self-supporting vertical. However, if your area encounters severe wind velocities or icing conditions, simple guying will prevent the possibility of a failure. Attach small diameter polypropolene rope just above the 20 meter trap. The polypropolene rope should be ultraviolet (UV) stabilized and weather resistant. Guying should be tightened just enough to permit the antenna to swing in a two or three degree arc. If a 75 or 80 meter resonator is included in your installation, use guying.

POOR SOIL CONDUCTIVITY:

People who live in areas that have poor conductive soil such as sand or very dry soil, should insulate the 4-BTV and install radials as per instructions for ground mount with radials.

FLUCTUATING WATER TABLE:

If a fluctuating water table exists close to the surface of your soil, the 4-BTV should be insulated from the mast as per instructions for tower mount and resonant length insulated radials should be added.

EQUIPMENT GROUNDING:

The use of equipment grounds can sometimes cause ground loops that upset the counterpoise of the antenna. It may be necessary to provide ground to equipment through R.F. choke if this condition is encountered. This condition is indicated when removing the equipment ground lowers the SWR. (See Section on static discharge protection for specs on type of choke.)

PERFORMANCE CHECK:

Set the element dimensions from Table in Fig. 7 to correspond to your conditions. In most installations, the dimensions indicated do result in resonance at the band centers permitting full band operation with very low SWR. However, no two installations are exactly alike and proximity of the antenna to surrounding objects, radial lengths or other factors can modify resonance of the antenna. To quickly evaluate performance, use the following system with a reliable SWR bridge:

- 1 - Check SWR on 10 and 15 meters every 100 KHz.
- 2 - Check SWR 20 and 40 meters every 50 KHz.
- 3 - From the SWR figures ascertain the resonant frequency indicated by the lowest reflected power - best SWR.

If modification in the element lengths, A-A, B-B, etc., is required to change resonance to band centers, the following information will be helpful.

- 1 - Element length on 10 will affect 10-15-20 and 40. Element length on 15 will affect 15-20 and 40 etc., therefore, complete your adjustments on the higher band before proceeding to the next lower band.
- 2 - If resonance is too high in the band, increase the element dimension. If too low, reduce the element dimension.
- 3 - A change in total element dimension will result in the following approximate change in resonant frequency.

10-15 meters - 1" equals 100 KHz

20 meters - 1" equals 50 KHz

40 meters - 2" equals 75 KHz

The 4-BTV element adjustments are sufficient to obtain resonance at band centers under a wide range of conditions. However, radial lengths also determine resonance of the total antenna system and their length, if too short or too long, can modify resonance of the antenna beyond the element adjustment limits.

75/80 METER OPERATION:

Excellent fifth band performance is obtainable by installing a Hustler resonator and spider assembly directly on the 3/8"-24 stud located under the plastic cap on the 4-BTV top element. Fifth band operation is automatic with the resonator installed, switching or removal is not required and 10-40 meter performance is not degraded. Spider assembly and resonators are available through your Hustler Dealer.

The Hustler Super Series, RM-75-S or RM-80-S have the widest bandwidth and are rated at full legal SSB and CW power. The standard series, RM-75 or RM-80, are rated at 400 SSB power. Specific frequency coverage of each resonator is detailed on the Tip Rod Length Chart.

75/80 meter bandwidth is between 80 and 100 KHz for an SWR of 2 to 1 or better depending on resonator choice, installation and environment. This bandwidth, while restricted, is greater than any comparable product and compares favorably with a full size dipole.

TO ADD 75 OR 80 METER CAPABILITY, FOLLOW THE STEPS LISTED BELOW:

1. With reference to Figure 7, mark the location at the bottom of dimension "A" and remove the 4-BTV from its base by loosening the lowest stainless steel clamp.

2. If your installation is elevated, two radials are required at the following lengths. If space is restricted, radials may be zigzagged or run in an "L" configuration avoiding near parallel wrap back.
Phone Band: 75 meter resonator - 64'4". CW Band: 80 meter resonator - 65'6".
3. Install a spider assembly, part #4457-1, after bending the three spider arms as illustrated in Figure 1 on the top of the 56" upper tube section just below the 75 and 80 meter resonator.
4. Determine and set approximate tip rod length from Figure 8 for your desired band location. Tighten tip rod locking nut securely and attach resonator to 4-BTV.
5. Replace the 4-BTV on the mounting bracket to its original "A" dimension.
6. Check performance with SWR bridge. Minor adjustment (lowest SWR) may be required on the tip rod length to establish resonance at the desired 75 or 80 meter frequency.
7. Reactance of the resonator may cause slight change in 40 meter resonance. This is easily corrected by adjusting element dimension "D", Figure 7.

STATIC DISCHARGE PROTECTION:

You may want to employ a D.C. ground for static discharge protection. Installing two R.F. chokes will keep the vertical at D.C. ground, but not R.F. ground. One choke is connected from the vertical radiator center post to ground, the other from the bracket to ground. The chokes are connected at the same terminals as the coax on one end and to ground on the other. There is no special configuration but keep them insulated from each other. Keep the lead lengths from the antenna connections to the R.F. chokes as short as possible. You might want to weatherproof them with a spray coating such as Krylon Crystal Clear.

The chokes used should be approximately 8-12 micro henries. These chokes may discharge static better using larger wire. If you choose to make these chokes you can use any 3/4" diameter 2" long non-metallic core. Wrap 12 gauge solid insulated wire tightly around the core. You should end up with a total of 24 turns wrapped over three layers and the length of the choke to be 1-1/2" long. This will give you approximately 9.5 micro henries. The length of the wire needed for one choke is 7-1/2 feet and can be purchased at any hardware store.

FORMULA USED TO OBTAIN ABOVE SPECIFICATIONS IS: $L = \frac{\mu N^2 A}{l}$

μ = Permeability of core used (air is approximately $400 \times \pi \times 10^{-9}$)

N = Number of turns of wire

A = Crosssectional area of core material in meters

l = Length of solenoid in meters

LIGHTNING PROTECTION:

There is not absolute protection from lightning, although there are precautions that can be taken to lessen damage to equipment. The coax can be disconnected from your equipment when not in use. A 2-way coaxial switch can be incorporated outside, with one side of the switch connecting the antenna to your equipment and the other side connecting the antenna directly to a ground rod or water pipe. Simply switch to ground side of switch when not operating equipment. There are also various devices on the market which can be placed in the coax line to help dissipate static charges.

REPLACEMENT PARTS:

Replacement parts are available through the Factory Customer Service Department.

REPAIR SERVICE:

Repairs on all Hustler antennas can be obtained through the Factory Customer Service Department.

Due to a difficult tuning procedure requiring lab equipment and test fixtures, we recommend traps be returned to the Customer Service Department at the Factory. The 4-BTV traps with gray insulators or white insulators may be returned to the Factory Service Department for reconditioning. Reconditioning costs are \$4.50 per trap (if trap is not damaged beyond repair or of pre-1969 manufacture). Pre 1969 traps used cycolac over fiberglass coil forms with the entire coil covered by heat shrink tube.

HUSTLER WARRANTY:

New-Tronics Corporation warrants its products to be free of defects in material and workmanship and extends this warranty under intended use and normal service conditions to the original owner for a period of one year from the date of purchase.

This warranty does not apply to any product that has been repaired or altered in any manner and is void for any damage due to accident, neglect, unreasonable use, improper installation or any other cause not arising out of defects in material or workmanship.

The obligations of New-Tronics Corporation are limited to repairing or replacing, at its option, any product or part that is returned to the factory all transportation charges prepaid, accompanied by proof of purchase and which examination reveals to have been defective within the warranty period stated above. New-Tronics Corporation does not assume, nor is any person authorized to assume for it, any obligation other than that herein stated.

Any implied warranties, including but not limited to fitness for a particular purpose, are limited in duration for the above one year period. New-Tronics Corporation shall not be liable under this warranty or any implied warranty, for loss of use of the product or for other consequential loss or damage incurred by the purchaser.

Some states do not allow the exclusion or limitation of implied warranties or consequential damages and so the above exclusions of limitations may not apply. This warranty gives you special legal rights and you may have other rights that vary from state to state.

CONCLUSION:

Your installation is now complete. We are sure that you will enjoy many hours of pleasurable operation from your own Hustler 4-BTV trap vertical. If you have any questions regarding the installation or performance of this antenna, you may write to New-Tronics Corporation, Customer Service Office.

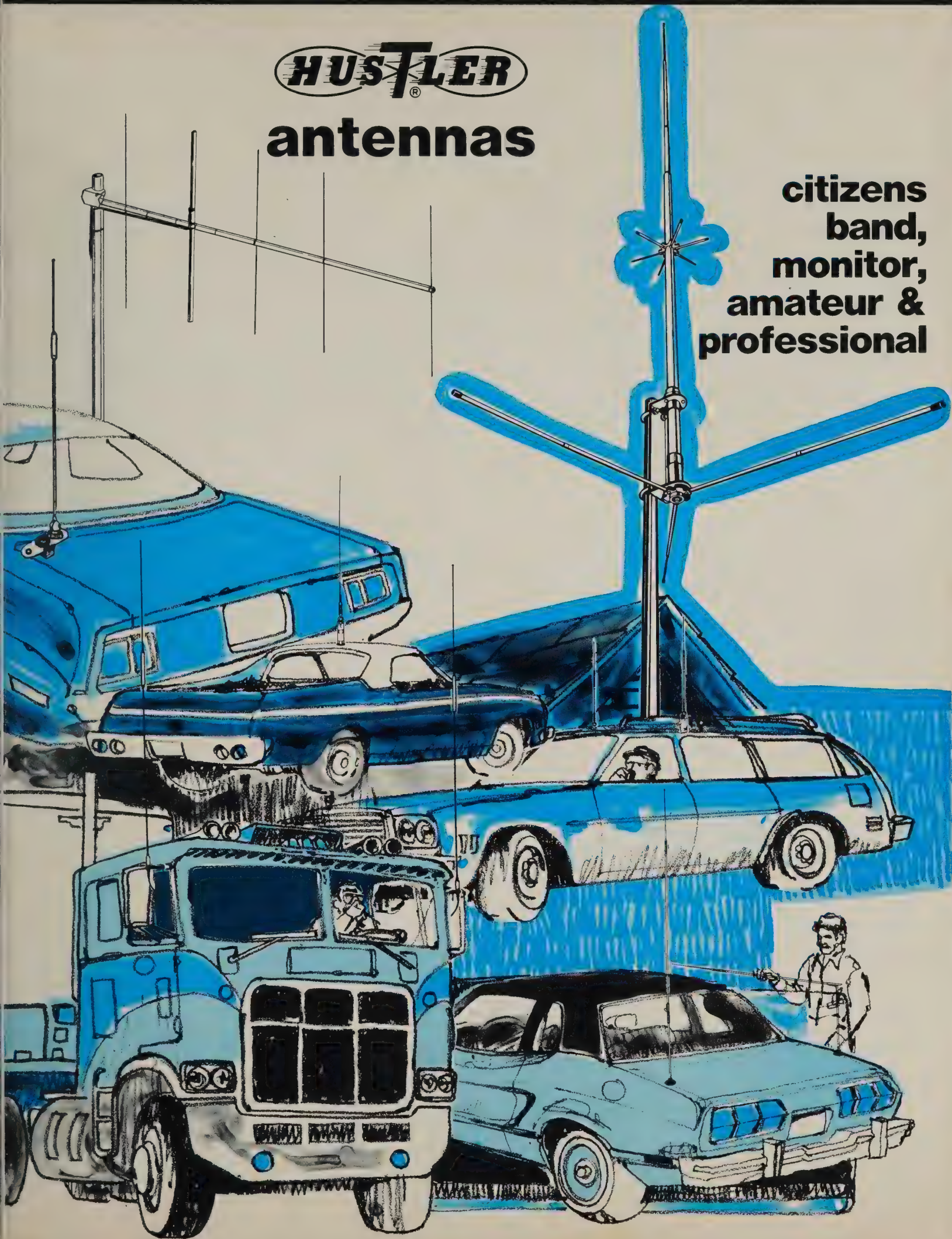
NEW-TRONICS CORPORATION
15800 Commerce Park Dr.
Brookpark, Ohio 44142

PHONE: 216/267-3150

HUSTLER

antennas

**citizens
band,
monitor,
amateur &
professional**



new•tronics corporation, the home of **HUSTLER**, "the home of originals"!



15800 Commerce Park Drive
Brook Park, Ohio 44142
Telephone 216/267-3150

There's a Hustler antenna designed specially for your kind of communications—your kind of budget.

Your ability to communicate reliably over short range or great distance by radio is largely dependent on the efficiency of your antenna system. Whether your antenna requirement is base station, mobile or both, Hustler offers a wide selection! Each model incorporates distinctive engineering design plus superior mechanical and electrical performance, all at a reasonable price.

AVAILABLE FROM ALL DEALERS WHO RECOGNIZE THE VERY BEST!

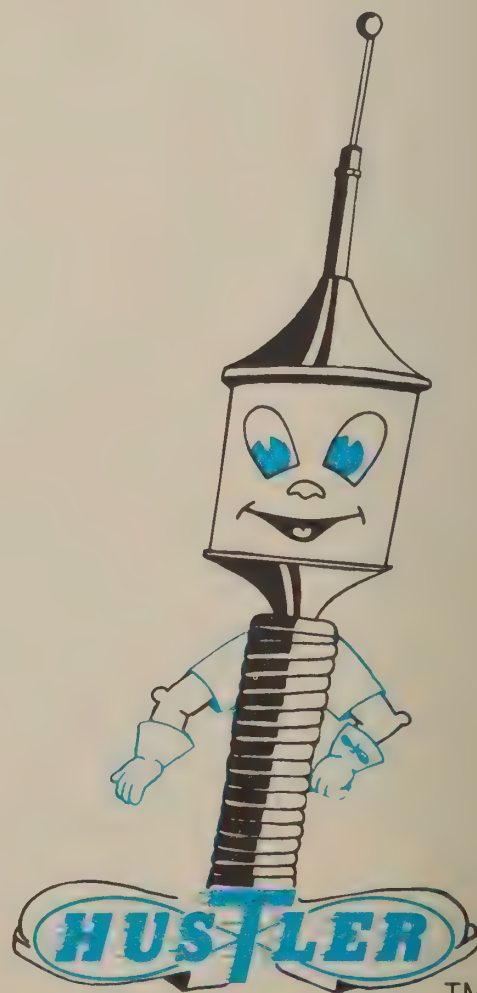
NEW-TRONICS PATENT NOTICE

Hustler antennas may be protected by one or more New-Tronics patents: U.S. 3287732, 3513472, 3327311, 3419869, 3599214, 3873985, 3582951; Canada 1017857.

SPECIFICATIONS AND AVAILABILITY OF ANY HUSTLER PRODUCT
SUBJECT TO CHANGE WITHOUT NOTICE.

World Wide Export: Roburn Agencies, Inc.
349 W. 14th Street, New York, N.Y. 10014
Cable Address: Roburnage-New York
Telephone: 212/989-5939

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TM

HUSTLER®

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Original Hustler Antennas

Behind the name of Hustler

New-Tronics, heavily engaged in the manufacture of auto radio replacement antennas in 1960, began producing originally designed two-way amateur radio antennas. The original New-Tronics mast antenna design, later named "HUSTLER", was a new concept in mobile antennas, providing superior performance, low SWR and broad bandwidth, optimized band-to-band operation, and a fold-over mast with a 360° swivel for quick band change or easy garaging. The performance was so excellent that early ads carried the caption "Get Fixed Station Reports From the Mobile!".

This first New-Tronics design became popular with mobiling radio amateurs all over the world. Since 1961 the design has been copied by nine other manufacturers. Yet today only the New-Tronics version remains and has retained its popularity. The current New-Tronics product line is distributed throughout the world.

In 1962 a contest was held, and the name "HUSTLER" was chosen from 3,000 entries submitted by radio amateurs and short wave enthusiasts across the USA. The "HUSTLER" name has since become synonymous with all New-Tronics products.

In 1963 the original Hustler amateur antenna was designed for 27 MHz CB use. Other Hustler products added to the expanding line included ball mounts, bumper mounts, and other related assemblies for amateur, CB, and commercial

radio. The year 1965 brought another Hustler innovation, the dual mobile antenna concept called Double-Talk™. This original New-Tronics concept, copied by many manufacturers today, employs two identical antennas power fed in parallel. The resulting radiation pattern is much more uniform. This provides for more consistent communications in all directions, when compared to any single mobile antenna.

Each Hustler product has been carefully designed to offer the user much more value and longer life than comparable products. Hustler products are also designed for quick installation.

Hustler designs use silver plated components, top-quality RG-58 and RG-59 coaxial cable, heat treated and tempered aluminum, heavy triple-plated chromed brass, case hardened steel, ultra-low-loss insulators, and the finest rustproof stainless steel springs and radiating elements. Extensive quality control assures you of outstanding performance with every Hustler product.

Hustler advertising carries a series of patent numbers issued directly to New-Tronics Corporation as proof of original design ideas.

New-Tronics is dedicated to the manufacture of superior communications and monitor antennas and allied hardware. Time has proven that product value, smart appearance, and top performance are what communicators want. Hustler products deliver all three plus the bonus of **RELIABILITY BEYOND EXPECTATION.**

Homing Pigeon™

"the home of originals"



**OUTSIDE ANTENNA NOT PERMITTED?
—HERE'S YOUR ANSWER!**

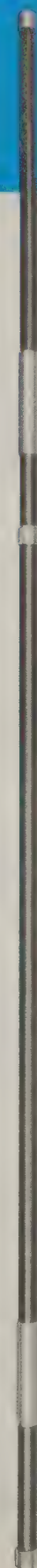


*Enjoy the
fun of CB
radio, and
add a
measure
of safety,
right in
the comfort
of your
home!*

Homing Pigeon™ Model HP-27 Indoor CB Base Station

The unique Hustler Homing Pigeon™ indoor CB antenna is the answer for anyone who can't or won't install a roof-mounted base station antenna. The Homing Pigeon™ gives CB'ers the ability to operate a base station almost anywhere — condominium, apartment, private home, office.

This Hustler innovation installs instantly between any floor and ceiling 7½ to 9½ feet just like a pole lamp. Tuning is quickly accomplished with a VSWR bridge. SWR at resonance is 1.1:1 or better and well below 2:1 over all channels. Performance of the Homing Pigeon™ is excellent providing a range equal or superior to better mobile antennas. The portable HP-27 is supplied complete and ready to use with 17' of top quality RG-58 coaxial cable and factory installed connectors. Shipping Weight: 4 lb.



HP-27
Patent Pending

"the home of originals"

HUSTLER

**SUPERTM
SWAMPER**

**SUPERTM
SWAMPER**

**Deluxe
Power Gain
CB Base Station**

**GREATER THAN
4.25^{dB}
GAIN***

Model 27TD

With Hustler Super Swamper you can reach the outer limit of CB radio. Electrical design of the 0.64-wavelength vertical radiating element plus full size radials guarantees highest signal radiation efficiency in the desired vertical plane. All-weather optimum power performance is assured with the sealed rf power "step-up" transformer, including dc grounding for lightning protection and static drain off.

The Super Swamper has heavy duty construction for long life and problem free operation. It is supplied complete including all mounting hardware, element end caps, and factory marked dimensions. It's ready for quick assembly, easy installation, and superb operation.

Specifications

Radiation Pattern: Omnidirectional.

SWR: 1.15:1 at resonance, 1.2:1 or better over CB channels 1 to 23, 1.5:1 or better over channels 24 to 40.

Impedance: 50 ohms nominal.

Power Gain: Greater than 4.25 dB*

Power Rating: 50 watts.

Operation: AM and SSB, all CB channels.

Coax Connector: Weather protected SO-239.

Radiator Lengths: 22' 3/4"

Radial Lengths: 108" each, quarter wave.

Mounting: Attached to vertical pipe up to 1 3/4" O.D.

Hardware supplied.

Shipping Weight: 9.50 lb.

*Compared to 1/4 wave ground plane.

27TD



"the home of originals"



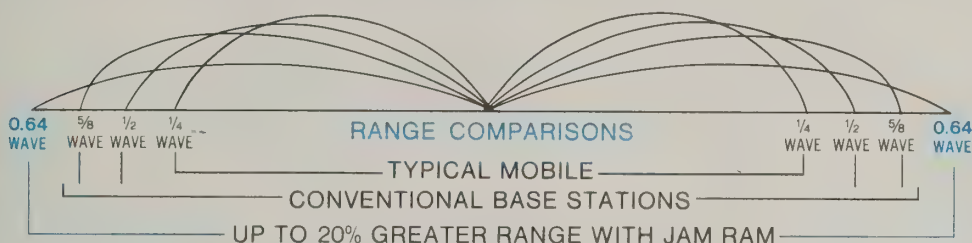
JamRamTM

JAM RAMTM CB Power Gain Base Station

Model 27JR

3.75^{dB} GAIN*

The Hustler Jam Ram breaks through with extended CB performance. The extended 0.64 wavelength vertical radiator has greater signal gain than conventional antenna designs. In addition, the three radial spider increases power distribution resulting in an effective increase of up to 20% greater range, transmitting and receiving. The antenna is dc grounded for lightning protection.



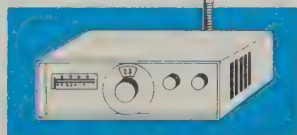
Specifications

Radiation Pattern: Omnidirectional.
 Power Rating: 50 watts.
 Power Gain: 3.75 dB*
 SWR: 1.2:1 or better.
 Impedance: 50 ohms nominal.
 Radiator Length: 19' 10³/₄"
 Radial Lengths: 108" each, quarter wave.
 Spider: Stainless steel.
 Coax Connector: Weather protected SO-239.
 Construction: Heat treated, high strength aluminum.
 Mounting: Hardware supplied. Mounts on vertical pipe up to 1³/₄" O.D.
 Shipping Weight: 7.9 lb.

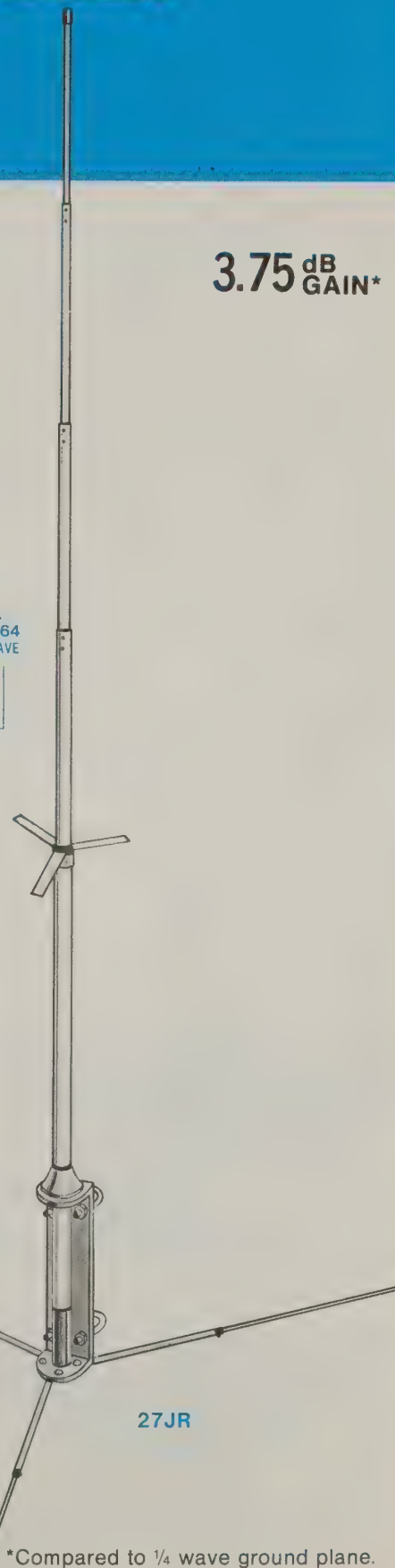
PORTABLE TRANSCEIVER CB ANTENNA

Model TMR-27 For 23 Channel Operation

Portable 21" base station CB antenna. Right angle PL-259 attaches directly to any transceiver for instant operation. Antenna is factory pre-tuned for lowest SWR, ready to operate. Shipping Weight: 0.78 lb.



TMR-27



*Compared to 1/4 wave ground plane.

A**NEW***"the home of originals"***HUSTLER**

Moon Streaker™

**Deluxe
Power Gain
CB Base Station
Model MS-4**

BEAM ANTENNA

with Optimized Performance!!

*Mechanically superior; built to stay up; uses
finest aluminum alloys for strength
and weather resistance!*

- optimized for best directivity and maximum gain
- gamma feed system for exact matching and coax balance
- strong elements, 1/2" diameter center sections, 3/8" diameter inserts
- clamped sections for strong dependable joints
- grounded all metal construction for strength and lightning protection
- capped element ends for anti-mechanical resonance
- commercial power rated

**9.4 dB
GAIN***

MS-4

Dominate the channel with a commanding signal. Get the thrill of power gain performance and the satisfaction of signal directivity. Extend your transmitting and receiving range far beyond previous limits with the Hustler Moon Streaker™ beam.

Hustler gives you optimized performance through selective element spacing and resonated element lengths with all dimensions factory marked for ease of assembly. Rugged construction to withstand severe weather yet light enough to be accommodated by a TV-antenna rotor. The Model MS-4 gamma match feed is completely adjustable for a 1.2:1 or better SWR.

Model MS-4 4-element Moon Streaker™ beam (tower not included).

Gain: 9.4 dB*
 Front-to-back Ratio: 28.0 dB
 SWR at Resonance: 1.05:1
 Nominal Impedance: 52 ohms
 Length: 17' 6"
 Shipping Weight: 11 lb.

*Compared to 1/2 wave dipole.

NEW

"the home of originals"



Speedy Seizer™

SPEEDY SEIZER™ provides perfect ground for best SWR at all times!

This fast-mount **CB antenna** hangs on tight and won't come off ... until you want it to!

The SPEEDY SEIZER™ mounts on almost any vertical or horizontal edge of

- cars
- trucks
- vans
- campers
- RV's
- farm vehicles
- off highway equipment

Just a twist and it's off, for **theft prevention** or car wash!
No need to open doors or trunk.

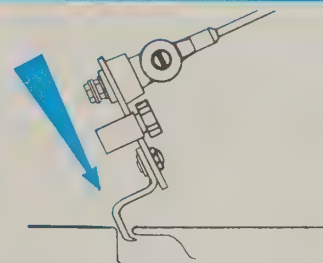
The exclusive Speedy Seizer design incorporates a unique rust-proof stainless steel clamp to hold the mount firmly in place and provide excellent ground contact. The mount easily fits any $\frac{1}{8}$ " gap with $\frac{5}{16}$ " minimum return, such as a door or trunk edge. An adjustable 180° swivel ball keeps the antenna vertical. Speedy Seizer comes complete with 17' of top-quality RG-58 coaxial cable and factory installed connectors.

Model SPSH

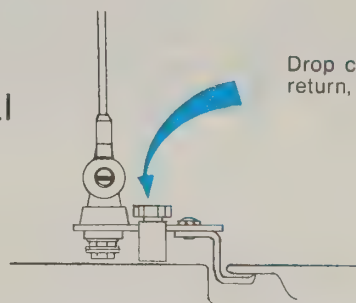
This 55" heavy-duty "Hi-Q" antenna is manufactured for maximum performance, using non-corrosive, Superflex stainless steel, silver-plated components, and a tuneable tip rod for lowest SWR. Shipping Weight: 2.56 lb.

Model SPS

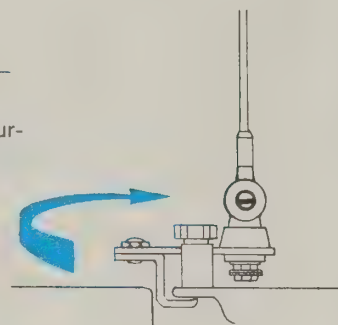
This 46" Superflex stainless steel antenna provides high signal-radiating efficiency at a convenient length, silver-plated components, and a tuneable tip rod for lowest SWR. Shipping Weight: 1.98 lb.



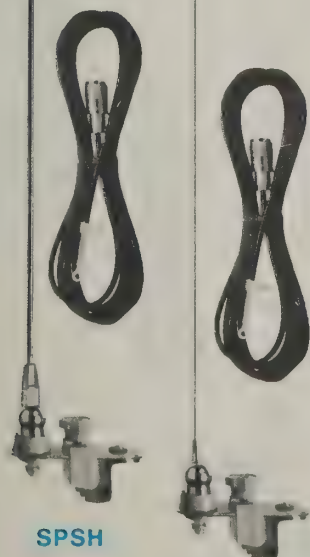
Drop clamp into any $\frac{1}{8}$ " slot with $\frac{5}{16}$ " return, i.e. side of trunk or doors.



Lower mount parallel to vehicle surface.



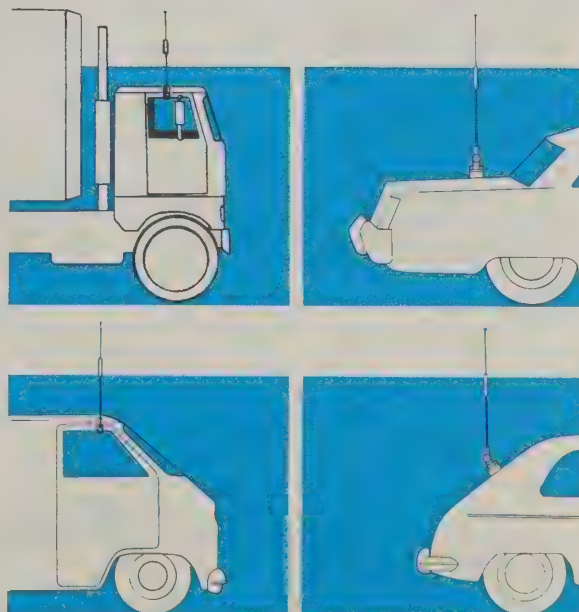
Pivot mount 180° and tighten knob.



SPSH

SPS

Patent Pending



"the home of originals"



Hustloff™

Out smart the rip-off — quick and easy! Turn the knob and store your antenna out of sight. To remount, slip the assembly on your trunk lid and spin the knob. It's that quick, that easy! And, most important, you get complete freedom from erratic grounding and questionable SWR that can cause CB radio failure. The Hustloff design is positive, definite, and equal in electrical and mechanical performance to the best permanently mounted CB mobile antennas.

HUSTLOFF™

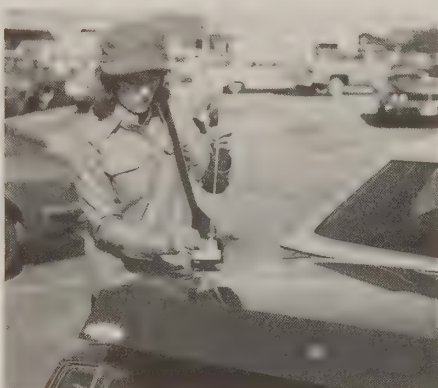
Model HT-27

Hustloff mount with 48" Superflex stainless steel antenna. Complete with 17' top quality RG-58 coaxial cable, connectors factory attached, ready to operate. Shipping Weight: 2.82 lb.

SUPER HUSTLOFF™

Model HHT-27

Hustloff mount, 55" commercial-power rated heavy-duty Superflex stainless steel antenna for optimum performance. Includes 17' top quality RG-58 coaxial cable, connectors attached, ready to use. Shipping Weight: 3.2 lb.



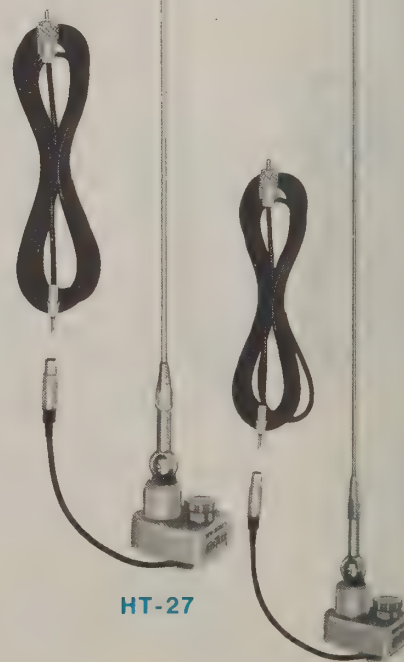
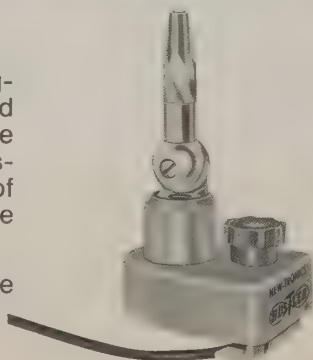
A twist of the knob mounts or detaches antenna.



Out of sight storage of antenna.

THE HUSTLOFF™ MOUNT has rugged construction and a case hardened clamp with special taper for positive grounding. Twist knob to mount or dismount; 180° swivel for vertical positioning of antenna from any mounting angle. (See Page 36 for mount alone.)

When trunk is closed, mount cannot be removed!



HT-27

HHT-27



Special Design Hustloff™

ROB PROOF Gutter Mount

Model RFG

When you leave your car, hide your antenna! This Hustler deluxe 42" fiberglass antenna with the No Rob Knob permits easy and quick removal or remount on the car's rain gutter. It takes only seconds, just spin the knob. Performance is superior to all other rob-proof devices. Includes stainless steel impact spring, 180° swivel ball, and 13' top-quality RG-58 coaxial cable, connectors attached. Shipping Weight: 2.5 lb.



It's quick, it's easy. Spin the No Rob Knob and remove or remount the antenna. Get ideal grounding, lowest SWR always!

POWER-PACKER™ Trunk Lip Mount

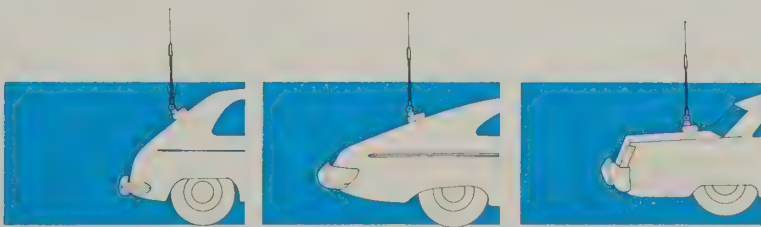
Model HQ-27M

Here is the ultimate Hustler with advanced design for superior mechanical-electrical performance. The trunk lip mount securely attaches to trunk lid. It features a knob-adjustable 180° swivel for positioning antenna to vertical from any mounting angle. The 17' of top-quality RG-58 coaxial cable is complete with factory installed connectors.

The antenna is 55", manufactured from non-corrosive Superflex stainless steel with "Hi-Q" resonator and adjustable tip rod for lowest SWR. Shipping Weight: 2.2 lb.

Model HQ-27

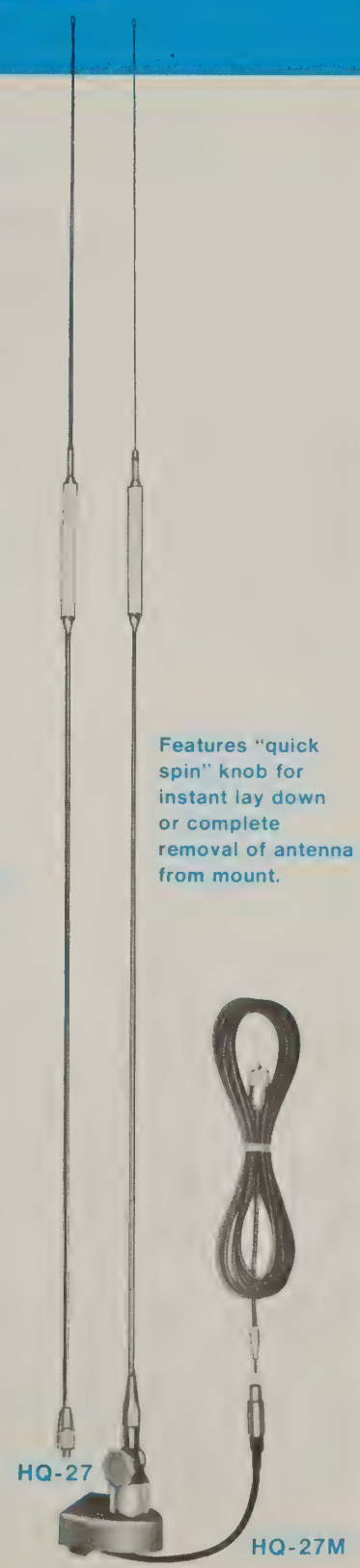
Power-Packer antenna only with 3/8"-24 base to fit all standard mobile mounts. (See mounts Pages 36-39.) Shipping Weight: 1.25 lb.



Features "quick spin" knob for instant lay down or complete removal of antenna from mount.



RFG



HQ-27

HQ-27M

A**NEW***"the home of originals"***3 DeciBeler™****THE LAST REPLACEMENT YOU'LL EVER
NEED FOR YOUR BASE-LOAD ANTENNA!**

The **HUSTLER** 3 DeciBeler™
mobile CB antenna
can give you up to twice the
range of your base-loaded
antenna . . .

and it installs in your
existing mount!

No fuss,
no muss,
nothing
else
to buy.

**3DBA****3DBH****Model 3DBA****(fits mounts with 5/8"-24 thread)**

The Model 3DBA 3 DeciBeler™ has 3 dB gain over a base-load antenna. The center loaded design of the 45" 3DBA provides greater antenna efficiency and that means more range, transmitting and receiving. The antenna and tuneable tip rod are non-corrosive Superflex stainless steel. SWR is typically 1.1:1 or better at resonance. The 3 DeciBeler™ is supplied complete, ready for fast installation and use. Shipping Weight: 0.96 lb.

Model 3DBH**(fits standard Hustler mounts)**

Model 3DBH has identical characteristics to 3DBA except it mounts on existing Hustler base-load antenna hardware.



Deluxe Stainless Antennas

SILVER PLATED COMPONENTS for the best performance ever!

Hustler Superflex stainless steel 48" antennas offer convenience of length, flexibility, and long life. Highest signal radiating efficiency and nominal 50 ohm base impedance is assured with center loading. Each antenna is supplied with an adjustable stainless steel tip rod for lowest SWR. Hustler offers many versions of this popular antenna to accommodate any location. (Also see Model HT-27, Page 8.)

Model FG-27s

Antenna only (See mounts on Pages 36-39.)

Stainless steel 48" center-loaded antenna with $\frac{3}{8}$ "-24 base fits any standard mobile mount including all Hustler mounts illustrated in this catalog. Shipping Weight: 0.95 lb.

Model TLA-27Ls

Trunk Lip Mount

Best in popularity, this 48" antenna with trunk lip mount attaches to a trunk lid. No drilling, wire trimming or soldering required. Antenna may be removed from mount, if desired. Supplied complete with 17' top-quality RG-58 coaxial cable and factory-installed connectors. Shipping Weight: 2.10 lb.

Model FGB-27Ls

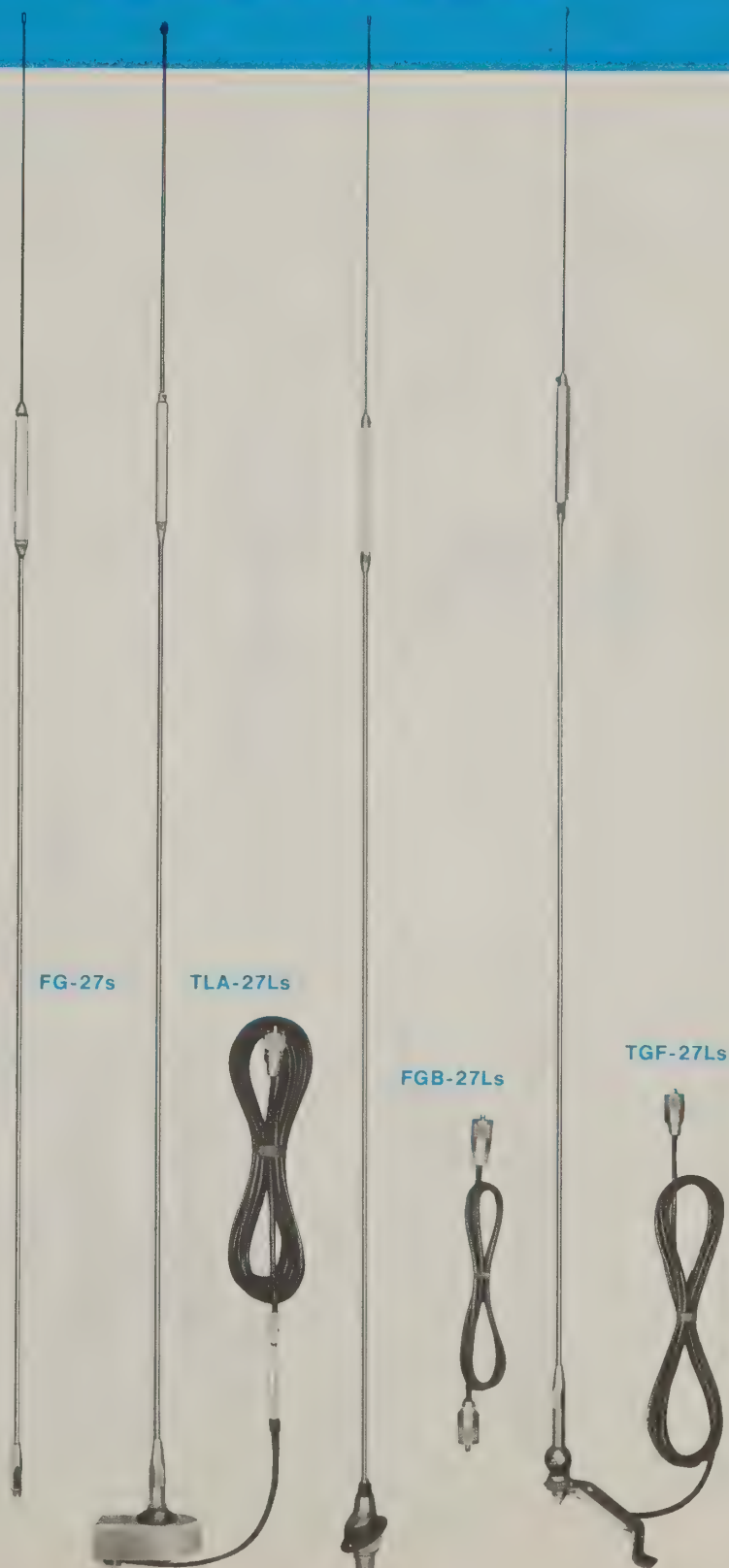
Cowl Mount

Performance and economy are combined in this 48" cowl mount antenna. Supplied with automotive "eight ball" mount, adjustable up to 32°. Fits $\frac{15}{16}$ " to 10 $\frac{1}{8}$ " mounting hole. Easy outside-of-vehicle installation. Complete with detachable 60' top-quality RG-58 coaxial cable and factory-installed connectors. Shipping Weight: 1.47 lb.

Model TGF-27Ls

Trunk Groove Mount

Stainless steel 48" antenna complete with easy-to-install trunk groove mount — installs in hidden area in groove of trunk. Supplied ready for installation and operation with 16' top-quality RG-58 coaxial cable and factory-installed connectors. Includes chrome plated 180° swivel ball for vertical positioning of antenna and all mounting hardware. Antenna is removable from mount. Shipping Weight: 1.47 lb.



"the home of originals"

HUSTLER

Deluxe Double Talk™



SDTs

DFG

Hustler is the originator of the dual antenna system for car and truck with guaranteed superior performance over a single antenna installation! Double-Talk provides the most uniform signal pattern because of a unique phasing design. You get more consistent communications with virtually no fading or blind spots when changing direction in travel.

Model SDTs

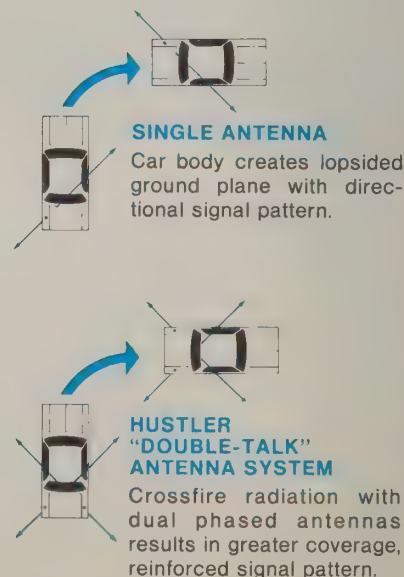
Super Deluxe Trunk Groove Mount

This dual 48", Superflex stainless steel antenna system is supplied with easy to install, heavy chrome plated no-rust trunk groove mounts, 180° swivels for vertical adjustments of the antennas, and special 17' dual phasing harness for exact matching and balanced power feed to each antenna. All mounting hardware included. Antennas may be removed from mounts for car wash. Shipping Weight: 3.65 lb.

Model DFG

Super Deluxe Rain Gutter Mount

Get the advantage of a Hustler Double-Talk antenna system from a roof top location. Two gleaming white 42" fiberglass antennas complete with deluxe chrome plated gutter mounts. Mounts include stainless steel springs and 180° swivel balls. Fits most gutters. No drilling or special tools required. Supplied with dual 17' phasing harness for exact antenna matching. Shipping Weight: 4.15 lb.





Special Short Antennas

Every high-efficiency short antenna has finest-quality stainless steel spring with rf center-bonding pigtail, triple chrome-plated brass lower section, removable weather-proof center resonator, and corrosion free stainless steel adjustable tip rod for lowest SWR.

Model RTG-27L

Rain Gutter Mount

Get easy installation with this 25" antenna. Gutter mount manufactured from heavy gauge, corrosion free chrome plated metal. Clamps securely to many rain gutters. Includes adjustable 180° swivel ball for vertical positioning of the antenna. Ready for easy installation with 12' of top-quality RG-58 coaxial cable and factory attached connectors. Shipping Weight: 1.77 lb.

Model TLS-27L

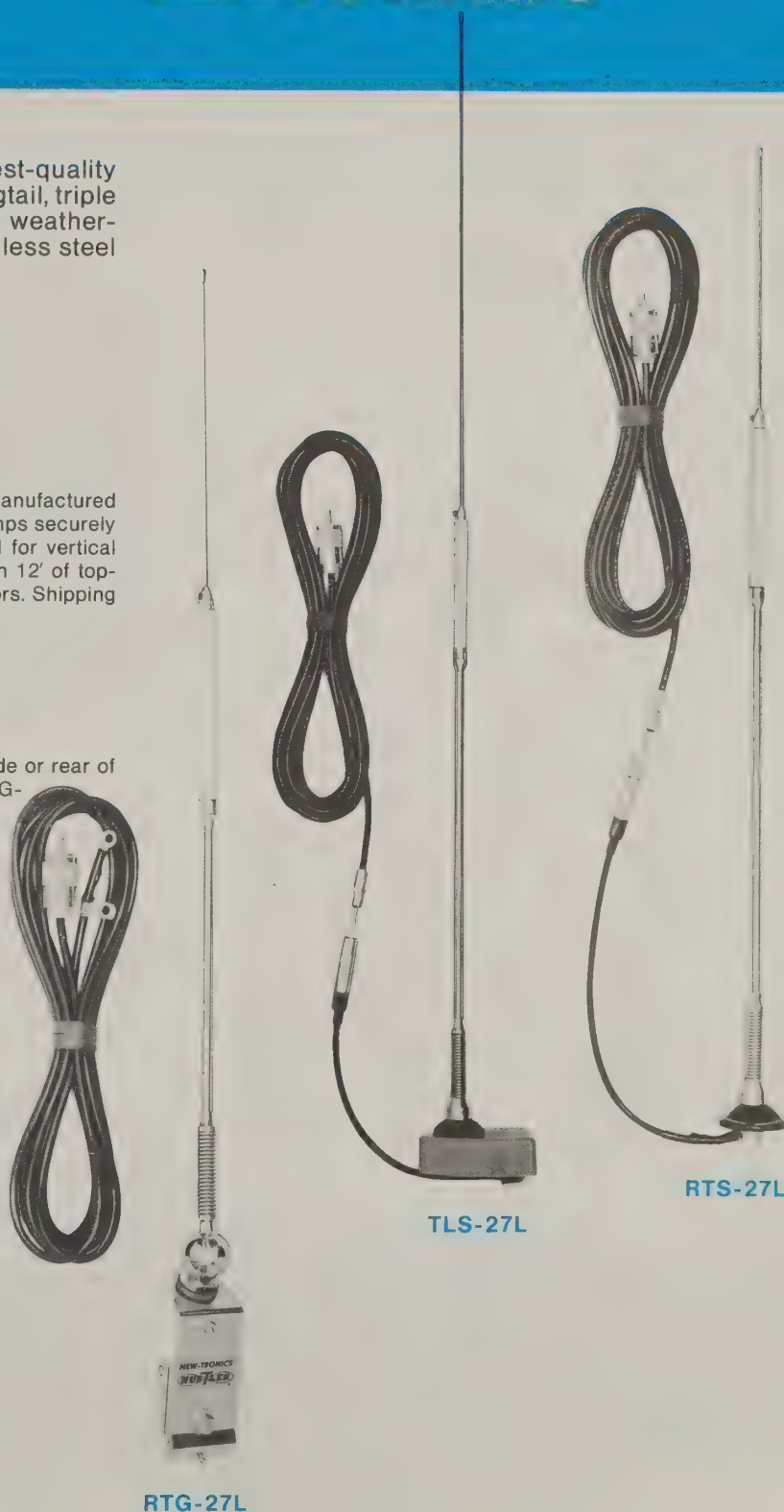
Trunk Lip Mount

This optimized-performance 30" antenna installs on the side or rear of your car trunk without holes. Supplied with 17' top-quality RG-58 coaxial cable, factory-installed connectors. Shipping Weight: 2 lb.

Model RTS-27L

Roof Mount

This 25" roof top antenna installs in a 3/4" hole on any flat surface. Special design of the lo-profile mount and cable assembly permits easy and rapid installation from outside of the vehicle without pulling car's headliner. Supplied with 17' of top-quality RG-58 coaxial cable, all connectors factory attached. Shipping Weight: 1.63 lb.



"the home of originals"

HUSTLER

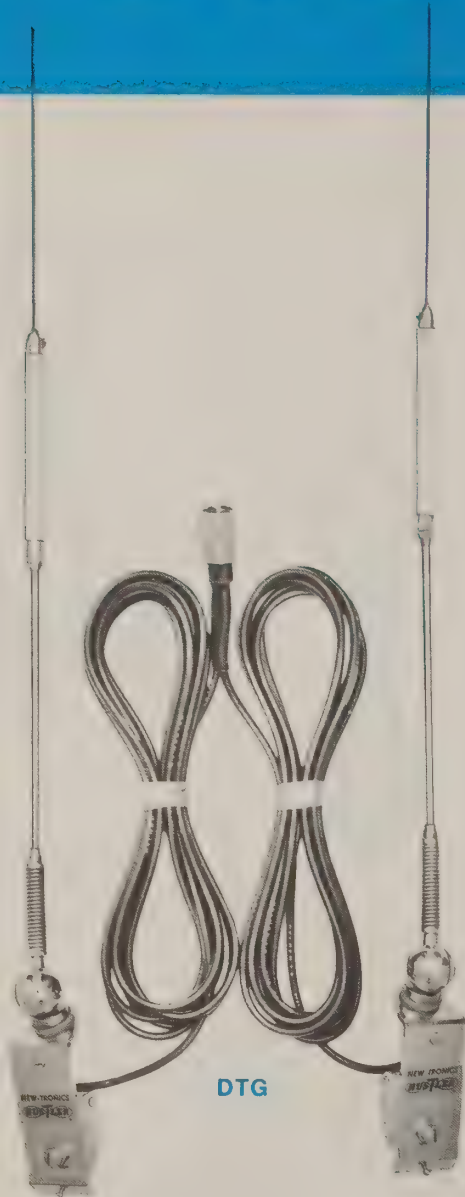
Short Double Talk™



Model DTG

Rain Gutter Mount

Two 25" high-efficiency gutter mounted antennas give you freedom from dead spots and twice the signal capture area. This Hustler Double-Talk antenna system fits most gutters. Supplied with chrome-plated mounts, 180° swivel balls, stainless steel springs, and 12' top-quality RG-58 coaxial cable with factory-installed connectors. Completely adjustable for lowest SWR. Shipping Weight: 2.65 lb.





Deluxe RV Design

SPECIAL ANTENNAS FOR RECREATIONAL VEHICLES



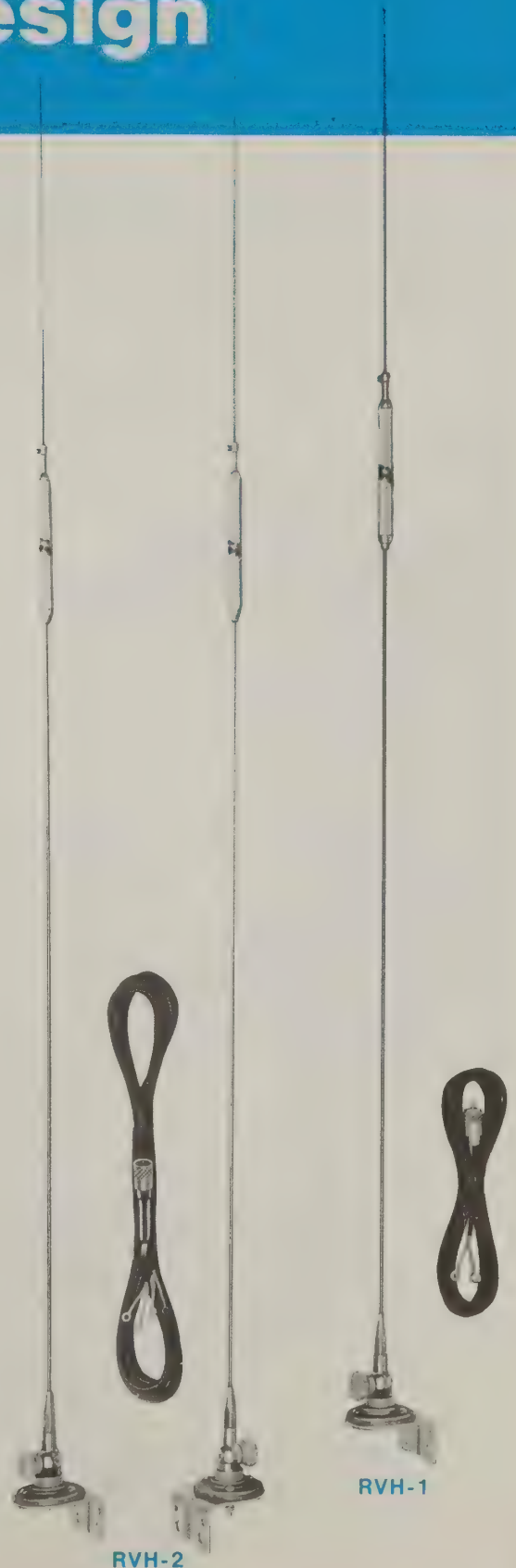
For the recreational buff desiring the very best range and dependability, it's the Hustler Deluxe RV antenna system. You get proven performance with antennas road tested and acknowledged as the best by thousands of truckers. The commercial power rated 55" Superflex stainless steel antennas far outperform and outlast other designs. Silver-plated center load resonators and adjustable tuning tips for low SWR and peak efficiency provide years of "stay tuned" performance.

Model RVH-2

This deluxe dual RV antenna system provides more consistent communications with virtually no fading or blind spots when changing direction in travel. Includes heavy duty mounts, 180° swivels, "quick spin" knobs for instant laydown or fast antenna removal, cable grommets and mounting hardware. Supplied ready to install and operate with 17' dual phasing harness, connectors factory attached. Shipping Weight: 5.15 lb.

Model RVH-1

Deluxe single RV antenna supplied complete with 17' top-quality RG-58 coaxial cable, connectors attached, ready to use. Shipping Weight: 3 lb.



RVH-2

RVH-1

"the home of originals"

HUSTLER

Special RV Design

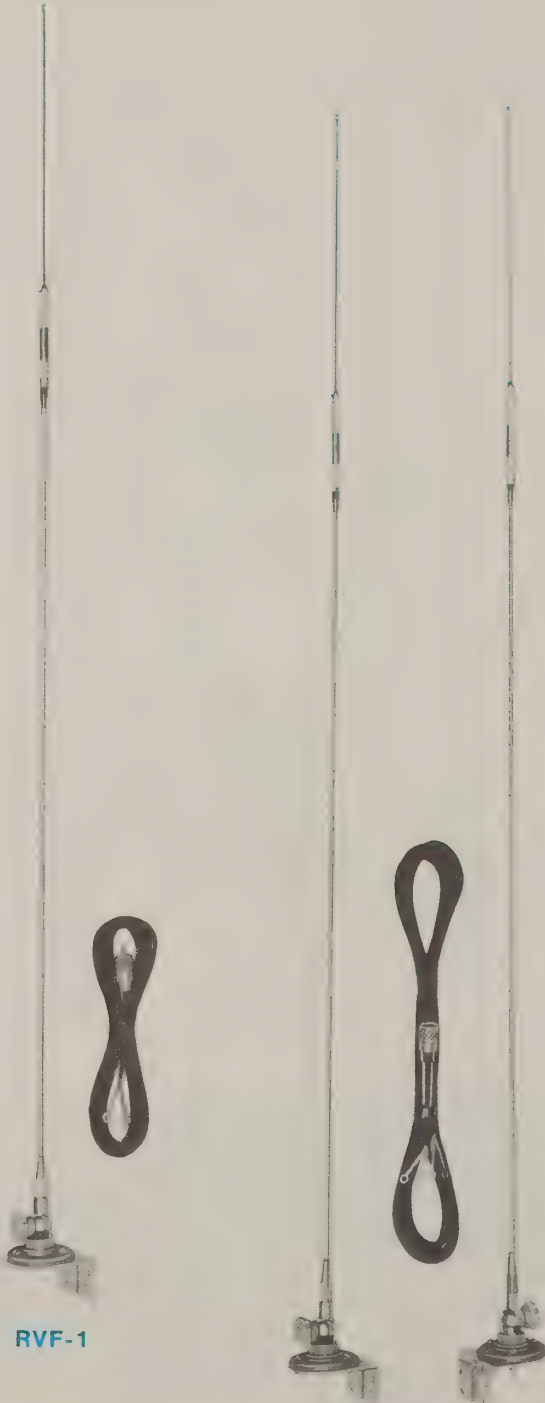
Now you can enjoy Hustler reliability with RV antennas designed for vertical side panel or roof mountings. Assemblies include 180° swivel adjustments for positioning antennas to vertical and "quick spin" knobs for instant lay down or rapid removal of antennas from the mounts. The Superflex 48" center loaded stainless steel antennas are adjustable for lowest SWR, optimum performance. Grommets and mounting hardware supplied.

Model RVF-2

This dual RV antennas system provides more consistent communications with virtually no fading or blind spots when changing directions in travel. Supplied complete with dual 17' phasing harness ready to connect and operate. Shipping Weight: 4.75 lb.

Model RVF-1

Single antenna complete with 17' of top-quality RG-58 coaxial cable, connectors factory attached, ready to install and operate. Shipping Weight: 2.75 lb.



RVF-1

RVF-2



"the home of originals"

HUSTLER

Husky™ Truck Antennas

ADVANCED DESIGN with

Heavy Tip Rods

Oversize "Hi-Q"
Resonators

Stainless Steel
Radiators

Slotted Mirror
Mounts

Professional
Phasing
Harness

for
Extra "HUSKY"
PERFORMANCE

Hook up to the commercial power rated antennas road tested and acknowledged as the best by thousands of truckers . . . Hustler "Hi-Q" Twin Huskies!

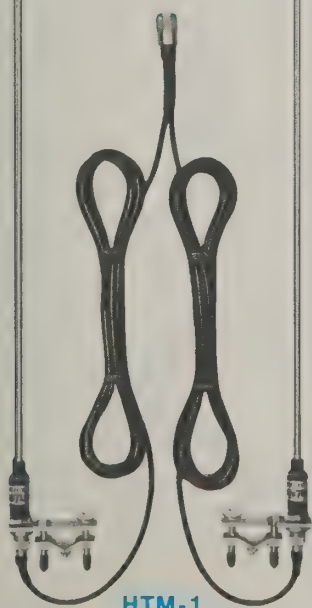
"Hi-Q" Twin Huskies™ Model HTM-1

Hustler, originator of the dual antenna system, gives you total electrical and mechanical reliability. These 51" antennas include non-corrosive Superflex stainless steel radiators, oversize "Hi-Q" resonators, positive lock-in large-diameter tip rods, and slotted mirror mounts to fit all West Coast style mirrors. The professional 17' dual phasing harness has balanced power feed for optimized performance. Supplied complete, ready for instant installation and use. Shipping Weight: 4 lb.

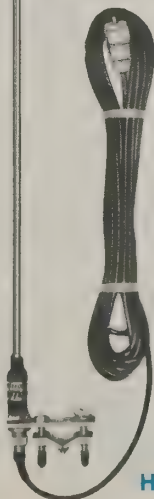


Single Husky™ Model HSM-1

Single Husky for all vehicles with single West Coast style mirror. Complete with 12' top-quality RG-58 coaxial cable, connectors attached, ready to use. Shipping Weight: 2.3 lb.



HTM-1



HSM-1

*"the home of originals"***HUSTLER**

Special For CB — AM/FM

Hustler CB — AM/FM antennas represent the latest designs in multipurpose antennas. They provide excellent CB two-way communication plus AM/FM entertainment radio reception.

Model HLM-27Z

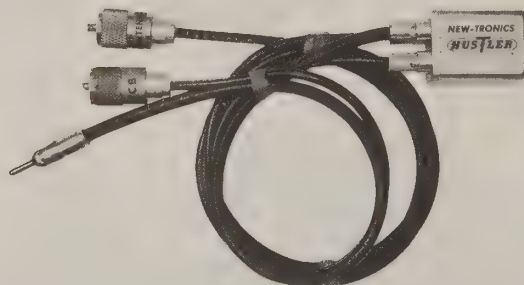
Trunk Lip Mount

CB — AM/FM 48" antenna installs on trunk lid without drilling. This antenna features a "quick spin" knob for instant lay down or complete removal of the antenna from the mount. It also includes 180° swivel to position antenna to vertical. Complete with adjustable CB matcher for lowest SWR. All cables have factory attached connectors. Shipping Weight: 3 lb.

Model FGB-27M

Cowl Mount

Use as a new installation or to replace a conventional auto antenna. Superflex stainless steel 44" antenna, 30° adjustable cowl mount, adjustable CB matcher for lowest SWR, all cables with connectors attached. Shipping Weight: 1.7 lb.

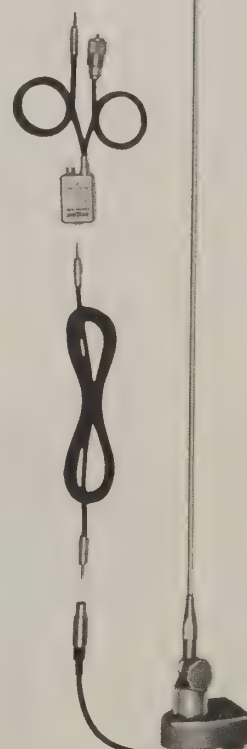


Model ZM-60R

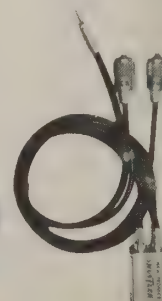
Permits operation of your AM or AM/FM auto radio from your CB antenna. Use with any series feed (ungrounded) CB antenna such as the Hustler FG-27s or HQ-27 and Model MM-1 Mount. Furnished with 60" lead from antenna to matcher and 18" leads to radio and CB transceiver, all connectors factory attached. Shipping Weight: 0.6 lb.

Model ZM-216R

For use with rear deck or trunk lip mounted series feed (ungrounded) CB antennas such as the Hustler Model TLA-27Ls and HQ-27M. Electrical performance identical to ZM-60R. Supplied with 216" cable between antenna and matcher, 18" leads to CB transceiver and auto radio. Shipping Weight: 1.0 lb.



HLM-27Z



FGB-27M

"the home of originals"



Custom Hustler Design

For the best performance ever — Custom assemble your Hustler!

Transmit and receive far beyond the range of conventional mobile antennas. Choose your location and custom assemble your Hustler with the finest components available. Get lowest SWR, stable electrical performance, and true vertical polarization at any road speed.

MAST

Heat treated, high strength $\frac{1}{2}$ " O.D. aluminum and chrome plated brass tubing with fold over feature for easy garaging. Mast is 54" long. Base is $\frac{3}{8}$ "-24 stainless steel.

Model MO-1

For Fender or Deck Mounting — Mast folds at roof line, 15" above base. Shipping Weight: 1.9 lb.

Model MO-2

For Bumper Mounting — Mast folds at roof line, 27" above base. Shipping Weight: 2.3 lb.

SUPER RESONATOR

Model RM-11S

Large "Hi-Q" space wound inductor is computer-designed to the optimum length/diameter ratio. Stainless steel tip rod with $\frac{3}{4}$ " corona ball, and CB band-edge reference marker, is completely adjustable for lowest SWR. 24" long. Shipping Weight: 1.2 lb.

STANDARD RESONATOR

Model RM-11

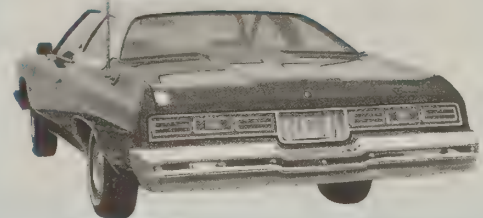
Adjustable stainless steel tip rod and band edge marker. 19" long. Shipping Weight: 0.46 lb.

Optional Accessories for either location:

- Model QD-1 Quick disconnect (Page 38)
- Model RSS-2 Resonator spring (Page 38)

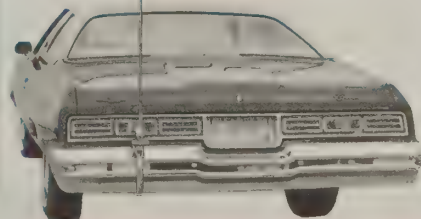
Deck/Fender Location

- MO-1 Mast
- RM-11S Super Resonator or RM-11 Standard
- SSM-2 Ball Mount (Pg. 39)
- L-14-240 Coax Cable (Pg. 40)



Bumper Mount Location

- MO-2 Mast
- RM-11S Super Resonator or RM-11 Standard
- BM-1 Bumper Mount (Pg. 39)
- L-14-240 Coax Cable (Pg. 40)



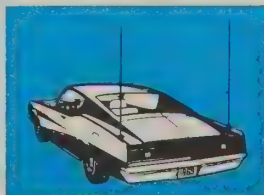
RM-11S

RM-11

MO-1 MO-2

MOBILING AT ITS BEST!

The only antenna better than a single Hustler is a pair in "Double-Talk". Use identical dual antennas with the Model DTLS phasing harness. (Page 40)



"the home of originals"



Original & Super Hustler

The Super and Original Hustler has remained unchallenged as the performance leader of all CB mobile antennas. Get greater transmitting and receiving range because of the large diameter radiators, center loading, extra large antenna aperture, and 50 ohm base impedance.

These Hustlers provide peak performance whether you're stationary or traveling at high speed. Signal flutter, detuning, unstable SWR and cross polarized signal loss are virtually eliminated because of the solid construction and rigid design of the antennas. The precision wound resonators are weather sealed and include stainless steel adjustable tip rods for lowest SWR. Mast is heat treated, high strength 1/2" OD aluminum and chrome plated brass tubing. The antenna folds at roof line for easy garaging. Stainless steel 3/8"-24 threaded base fits all Hustler bumper or ball mounts.

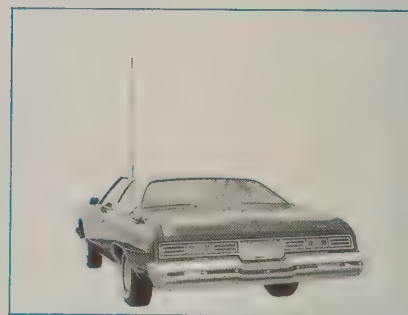
Fender/Deck Mounting

Model CB-111S Super Hustler

Antenna consisting of mast and super resonator. Mast folds at roof line, 15" above base. Shipping Weight: 2.75 lb.

Model CB-111 Original Hustler

Antenna consisting of mast and resonator. Mast folds at roof line, 15" above base. Shipping Weight: 2.25 lb.



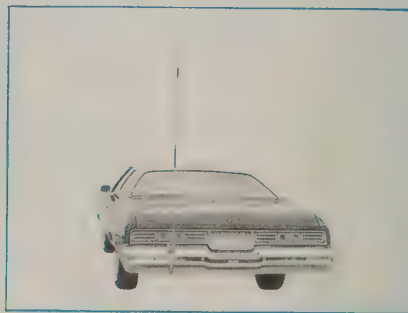
Bumper Mounting

Model CB-211S Super Hustler

Antenna consisting of mast and super resonator. Mast folds at roof line, 27" above base. Shipping Weight: 2.75 lb.

Model CB-211 Original Hustler

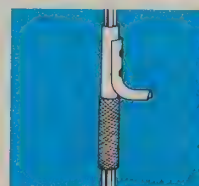
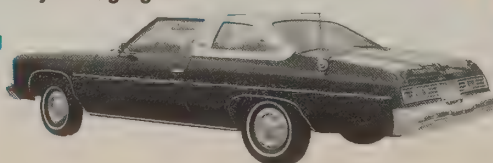
Antenna consisting of mast and resonator. Mast folds at roof line, 27" above base. Shipping Weight: 2.25 lb.



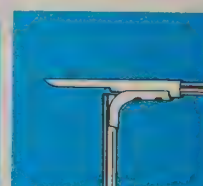
Optional Accessories for either location:

- Model QD-1 Quick disconnect (Page 38)
- Model RSS-2 Resonator spring (Page 38)
- Model DTLS Double-Talk harness (Page 40)

Easy Garaging



The original hinge and sleeve clutch mechanism.



Rotates 360° in horizontal plane.

CB-111S CB-211S CB-111 CB-211

"the home of originals"



Deluxe Base Load Antennas

The Hustler XBL™ and XBLT™ base matched antennas offer superior mechanical and electrical performance. SWR is typically 1.1:1 at resonance. These antennas are moisture sealed for stable all weather performance. Each assembly has a taper ground, polished, and tempered stainless steel adjustable radiator. Only Hustler gives you the choice of stainless steel spring and 180° swivel ball or spring alone in a 48" antenna.

XBLT™ SERIES: Trunk Lip Mount

Heavy-duty mount attaches to trunk lip without drilling holes. Special cable-capture device keeps cable free of pinch when trunk lid is closed. Both models supplied complete with 17' top-quality RG-58 coaxial cable with factory-installed connectors.

Model XBLT-3

"No Holes" trunk lip mount with impact spring. Shipping Weight: 2.76 lb.

Model XBLT-4

"No Holes" trunk lip mount with swivel ball and impact spring. Shipping Weight: 2.89 lb.

XBL™ SERIES: Roof or Deck Mount

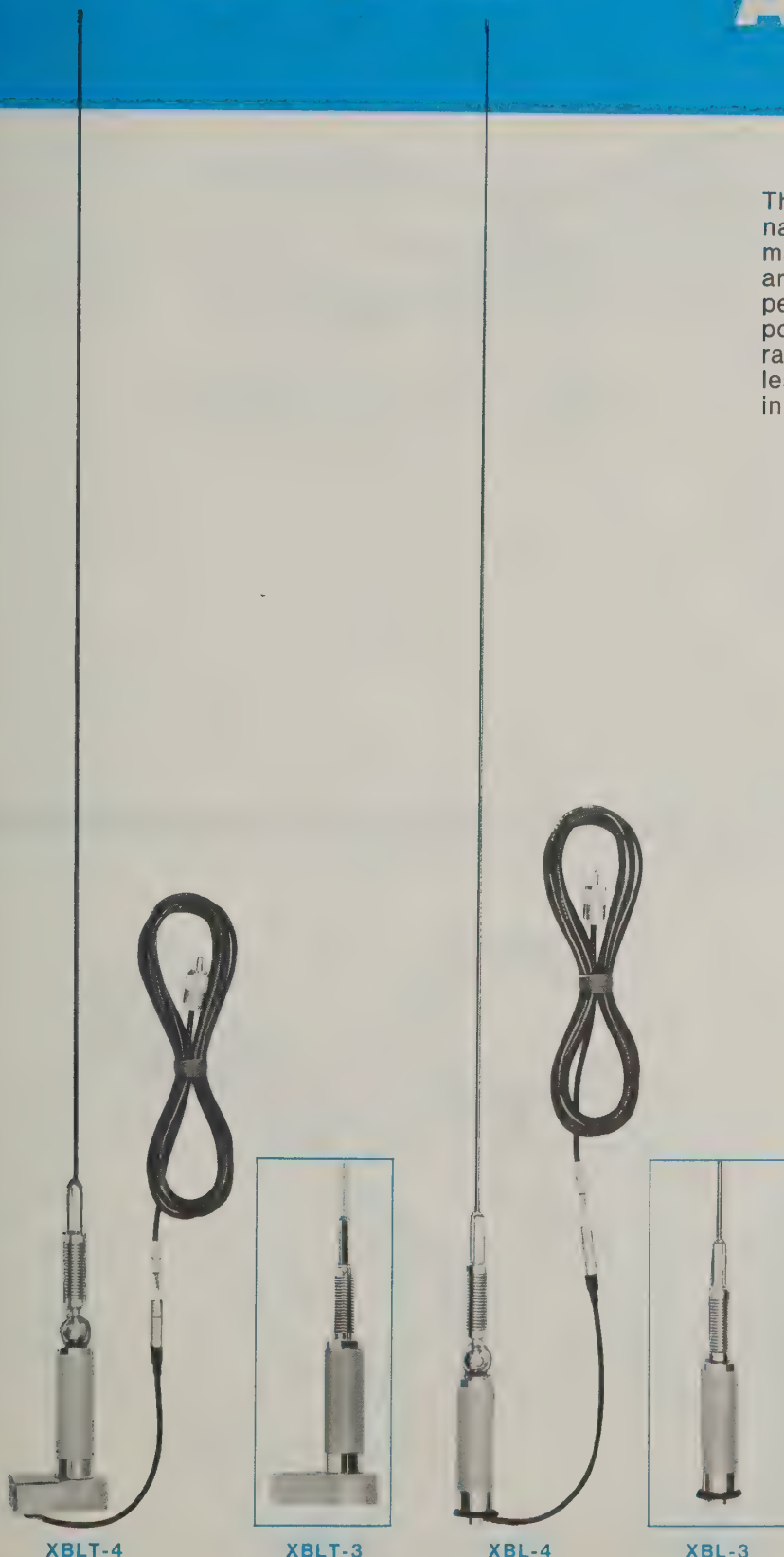
Antenna mounts and locks in 3/4" hole. Supplied complete with all mounting hardware. Includes 17' top-quality RG-58 coaxial cable, with all connectors factory installed.

Model XBL-3

Roof or deck mount with impact spring. Shipping Weight: 2.60 lb.

Model XBL-4

Roof or deck mount with swivel ball and impact spring. Shipping Weight: 2.70 lb.

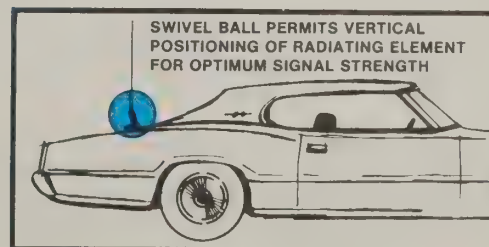


XBLT-4

XBLT-3

XBL-4

XBL-3



SWIVEL BALL PERMITS VERTICAL POSITIONING OF RADIATING ELEMENT FOR OPTIMUM SIGNAL STRENGTH

"the home of originals"

HUSTLER

Special For Monitoring

Hear It All With One Antenna Total Frequency Coverage — 40 To 700 MHz

DISCONE™

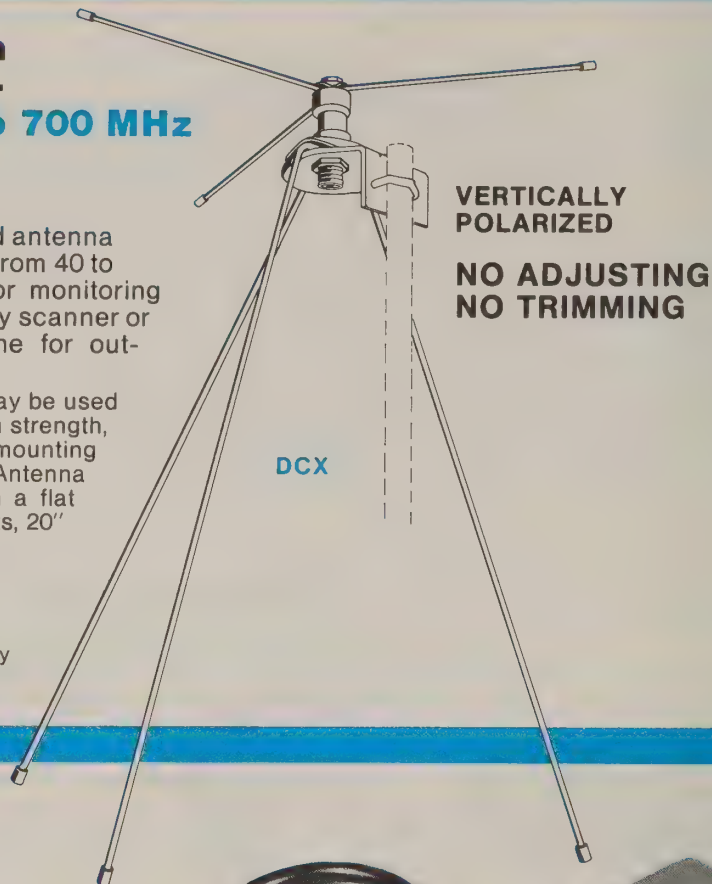
Model DCX

The Hustler Discone Model DCX is a wide band antenna and has complete coverage of all frequencies from 40 to 700 MHz. This design is especially suited for monitoring LOW BAND/HIGH BAND VHF and UHF with any scanner or receiver. As a plus feature, use the Discone for outstanding 88-108 MHz FM-stereo reception.

The Discone is easy to assemble and install and may be used with any length coax cable. Manufactured from high strength, solid aluminum rod, zinc plated hardware and mounting assembly, complete with SO-239 connector. Antenna mounts on vertical support up to 1¼" O.D. or on a flat surface. Cone elements, 55" in length. Disc elements, 20" in length. Shipping Weight: 2.5 lb.

Discone™ With Cable Model DCL

Discone antenna supplied with 50' coaxial cable and factory installed connectors; PL-259 one end and monitor pin-plug type on the other. Shipping Weight: 4.5 lb.



MONITOR-MATCH™

Model LY-5

MONITOR EVERYTHING WITH YOUR REGULAR OUTSIDE-MOUNTED OR WINDSHIELD CAR ANTENNA.

The Monitor-Match with your car antenna accomplishes the functions of four separate antennas. Optimized performance through electronic isolation and impedance matching is provided in individual leads for your entertainment AM or AM/FM radio, Lo/Hi VHF and UHF monitor receivers. The Monitor-Match will function with any monitor combination. Installation is easy, requiring only connectors to be plugged in. Supplied complete with all cables, ready to operate. Shipping Weight: 0.4 lb.

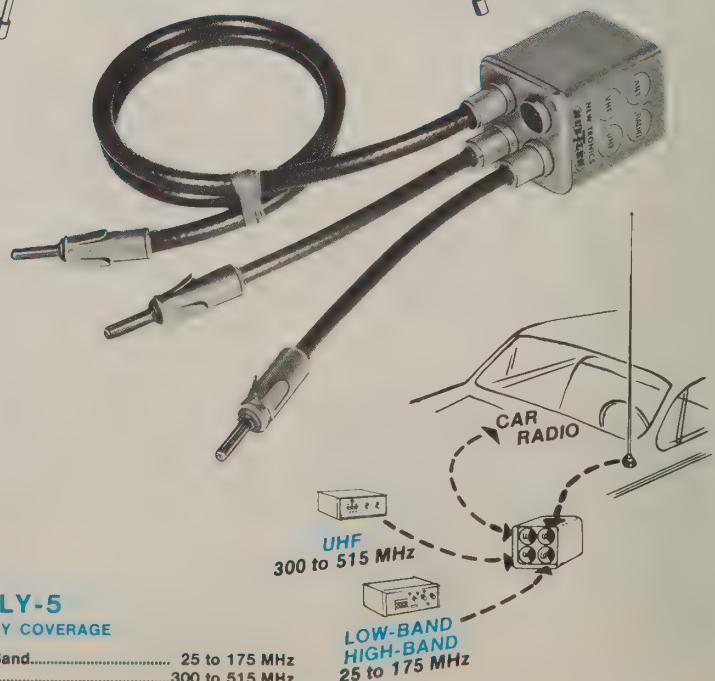
Model 24ARB Signal Cable

Replacement cable with auto radio pin-plug connectors. For use between Monitor-Match and car radio or as a general purpose signal cable. Length: 24". Shipping Weight: 0.06 lb.

Model LY-5

FREQUENCY COVERAGE

Low/High Band..... 25 to 175 MHz
UHF Band..... 300 to 515 MHz



NEW

"the home of originals"



Multi-Band Monitor Antennas

B

THEY NEVER NEED TRIMMING OR ADJUSTING!

HUSTLER multi-band monitor antennas, indoor and mobile, let your receiver or scanner bring in all the action!!

MOS indoor receiver-mounted, plugs directly into receiver or scanner, 33" length. Shipping Weight: 0.78 lb.

MOR roof/deck-mount mobile, low profile, mounts on flat horizontal surface, 33 $\frac{3}{4}$ " length, 12' cable. Shipping Weight: 1.29 lb.

MOT trunk lip mount mobile, for fast no-holes mounting on edge of trunk, 34 $\frac{1}{2}$ " length, 17' cable. Shipping Weight: 1.65 lb.

MOC universal-mount mobile, mounts on flat vertical or horizontal surface, 180° swivel keeps antenna vertical, 35 $\frac{1}{4}$ " length, 5' cable. Shipping Weight: 1.35 lb.

- **37-50 MHz, VHF**, police, fire, forestry service, utilities, business.
- **150-174 MHz, VHF**, railroad, marine, police, fire, hospitals, paramedics, weather alert.
- **450-470/470-512 MHz, UHF**, ambulance, disaster relief, taxis, mobile telephone, police, fire.

The three mobile models come complete with top-quality RG-58 coaxial cable and factory-installed connectors. Each antenna is designed for quick installation, trouble-free operation, and long life.

*"the home of originals"***HUSTLER**

Special Band Monitors

Hear All The Action

Hustler mobile monitor antennas let you hear all the action! Get stronger signal reception, quieter operation, greater distance. Each version has optimized performance plus excellent appearance and easy installation.

Model HFT

25-50 MHz and 140-180 MHz**Trunk Lip Mount**

Heavy duty four-section telescopic antenna permits optimizing each band separately. Operational height, approximately 40". Collapses to 22". Supplied complete with trunk lip mount and 17' top-quality RG-58 coaxial cable for easy no-holes installation. Shipping Weight: 2.3 lb.

HFT

Model THF

140-500 MHz**Trunk Lip Mount**

Easy-to-install trunk lip mount attaches to trunk lid without drilling. Antenna element is stainless steel, 20" long. Supplied ready for installation with 17' top-quality RG-58 coaxial cable, all connectors factory installed. Cutting chart for frequency to element length is included. Shipping Weight: 1.5 lb.

THF

Model UHG-1

130-200 MHz**Rain Gutter Mount**

Easy installation on most gutters without drilling or special tools. Includes heavy duty chrome plated no-rust mount, 180° swivel ball, stainless steel spring and 12' top-quality RG-58 coaxial cable, with all connectors attached. Shipping Weight: 1.6 lb.

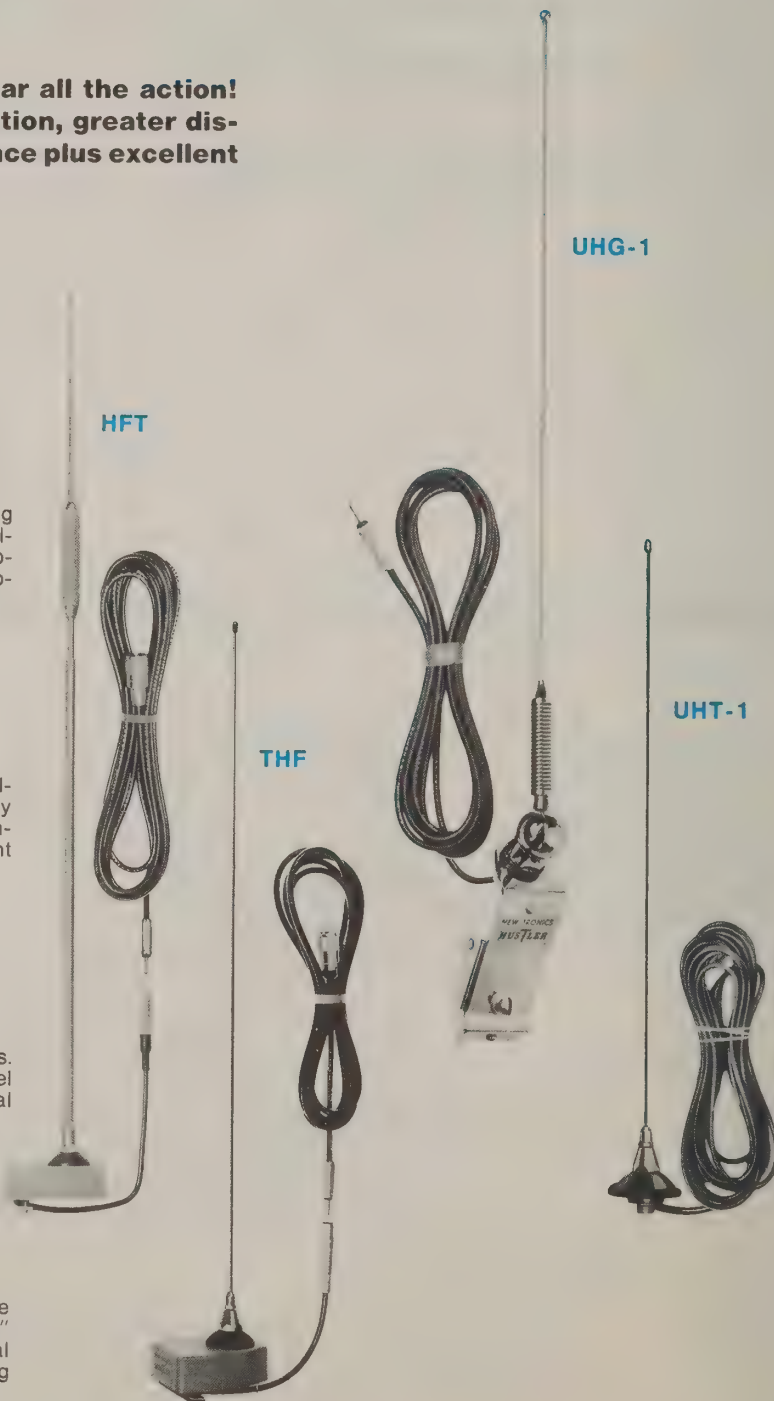
UHG-1

Model UHT-1

140-500 MHz**Roof or Deck Mount**

Lo-profile mount for any flat surface. Easy outside-of-vehicle installation in 3/4" hole. Antenna element is stainless steel, 20" long. Supplied with 15' factory attached top-quality RG-58 coaxial cable and cutting chart for frequency-to-element length. Shipping Weight: 1.2 lb.

UHT-1





4-BTV™

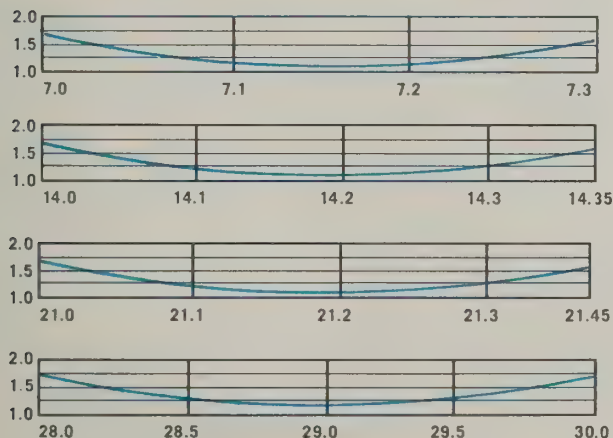


FOUR BAND Vertical Antenna Model 4-BTV™

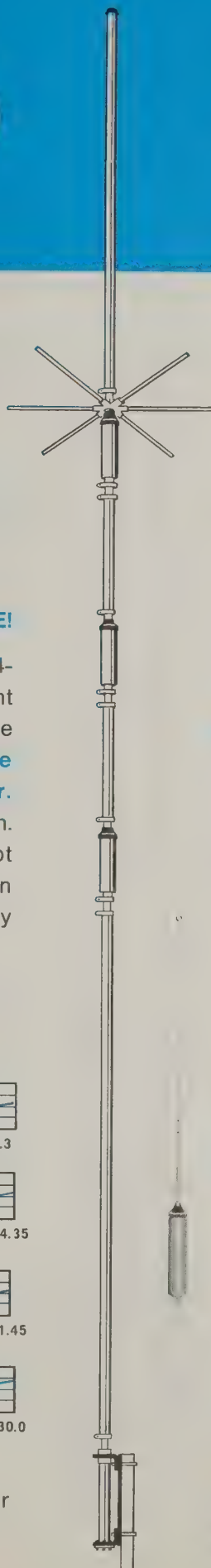
**COVERS 10 - 15 - 20 - 40 METERS . . .
ONE SETTING FOR TOTAL BAND COVERAGE!**

In restricted or unlimited space, the Hustler 4-BTV delivers top signal reports, consistent contacts, four band operation, and complete coverage on each band. **If you desire, add the fifth band with a 75 or 80 meter resonator.** Use one feedline — any convenient length. Switching or matching devices are not required. Get reliable performance with an antenna mechanically and electrically superior to any comparable product.

WIDEST BANDWIDTH AVAILABLE



- Top loading on 75 or 80 meters for broader bandwidth and higher radiation efficiency!
- Feed with any length 50 ohm coax.



- Hustler exclusive trap covers "Spritz" extruded to otherwise unattainable close tolerances assuring accurate and permanent trap resonance.
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability.
- Extra heavy duty aluminum mounting bracket with low loss — high strength insulators. Mounting hardware included.
- All sections 1 1/4" heavy wall, high strength aluminum.
- Stainless steel clamps permitting adjustment without damage to the aluminum tubing.

Specifications:

Length: 21' 5"

Power Capability: Full legal limit on SSB and CW.
SWR at resonance (typical): 1.15:1 or better.

Bandwidth: 1.6:1 SWR at band edges — 40 thru 10 meters.

Wind loading: 29 lb at 70 mph.

Mounting: Vertical support up to 1 3/4" O.D.

- (1) Tower or roof mount with radials.
- (2) Ground mount with radials (preferred) or without radials.

Shipping Weight: 15 lb.

For 75 Meter Operation HUSTLER SUPER RESONATOR

Rated at full legal SSB or CW power. Resonator installs directly on 3/8"-24 stud supplied on top element of 4-BTV. Adjustable stainless steel tip rod permits setting resonance between 3700 and 4000 kHz. Overall height: 44".

Model RM-75-S Shipping Weight: 2.11 lb.

STANDARD RESONATOR

Rated 400 watts PEP. Adjustable tip rod for setting resonance between 3700 and 4000 kHz. Overall height: 42 1/2".

Model RM-75 Shipping Weight: 1.05 lb.

For operation between 3500 and 3700 kHz use the Hustler RM-80-S or RM-80.

NEW

"the home of originals"

HUSHLER

MASTER GAINER IITM

TWO METER Vertical Antenna Model G7-144

NEW DESIGN RADIATES
SIGNAL AT LOWEST
ATTAINABLE ANGLE FOR
MAXIMUM RANGE!

The superior performance of the G7-144 Master Gainer II makes it the ideal choice for fixed-station or repeater operation. The gain of 7 dB transmitting and receiving makes it the most powerful 2-meter antenna of its type. The G7-144 combines the latest antenna technology with the best weather-resistant materials. Each precision-built component assembles quickly and easily. The result is a solid trouble free installation providing long life and minimum maintenance without adjustment.

7 dB GAIN

— compared to ½ wave dipole

EXTENDED COVERAGE FOR
FIXED STATION OR
REPEATER OPERATION

Electrical

7 dB gain over ½ wave dipole.

Omnidirectional radiation pattern, low angle.

50 ohm feed impedance.

Field adjustable: 144-148 MHz.

SWR at resonance: less than 1.1:1 measured at antenna.

Bandwidth: 6 MHz for 2:1 or better SWR.

Power: One kilowatt FM.

Feed: Shunt with dc grounding.

Radiator: collinear shunt-fed. Triple 5/8-wave elements in series, separated by 2 phasing coils to produce maximum gain and extremely low angle of radiation.

Mechanical

Vertical element: 184" long, 1 1/4" telescopic to 3/8" O.D. Heat-treated high strength aluminum.

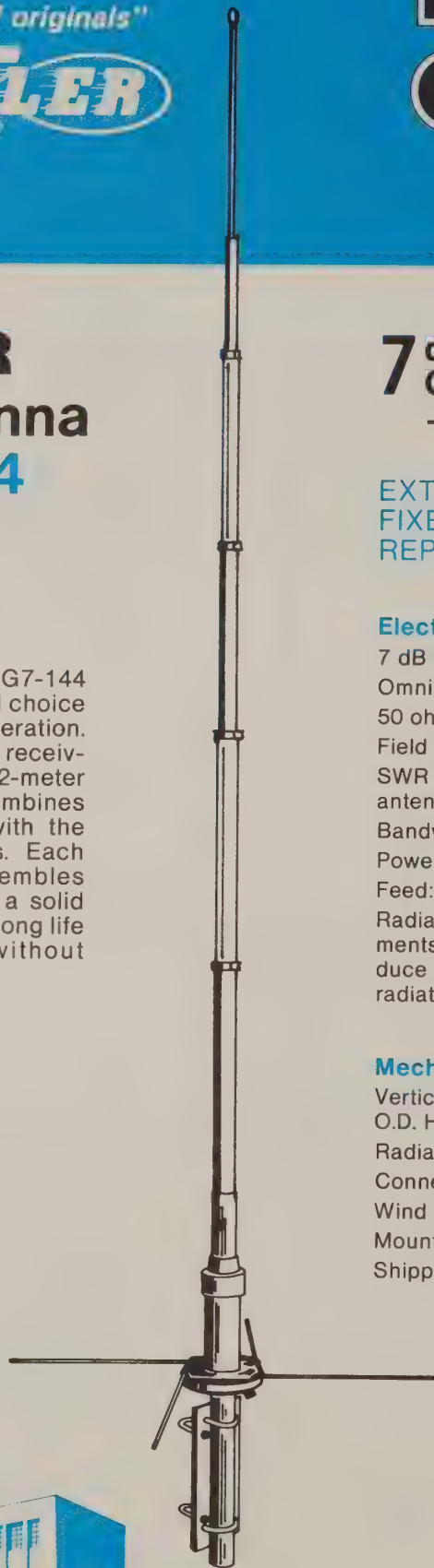
Radials: four, 20 1/4" x 3/8" O.D. aluminum.

Connector: type N.

Wind load: 26 pounds at 100 mph.

Mounting: vertical support up to 1 3/4" O.D.

Shipping Weight: 10.0 lb.



"the home of originals"



MASTER GAINER™



TWO METER Vertical Antenna Model G6-144-B

Have an outstanding signal on two-meters with 6 dB gain transmitting and receiving. For individual fixed station or repeater operation, the Hustler Master Gainer has superior mechanical and electrical design. Optimum gain is achieved with two $\frac{5}{8}$ wavelength radiators correctly phased in collinear configuration. Maximum signal radiation is at an extremely low angle. The Master Gainer is manufactured from the best materials available, precision machined for easy assembly and installation.

6 dB GAIN

— compared to $\frac{1}{2}$ wave dipole

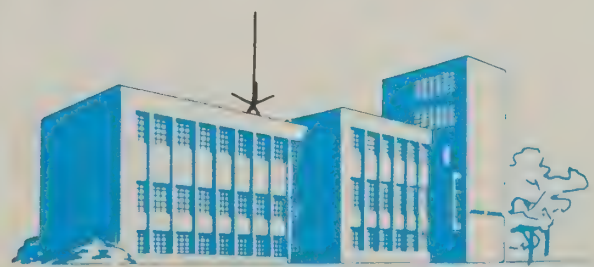
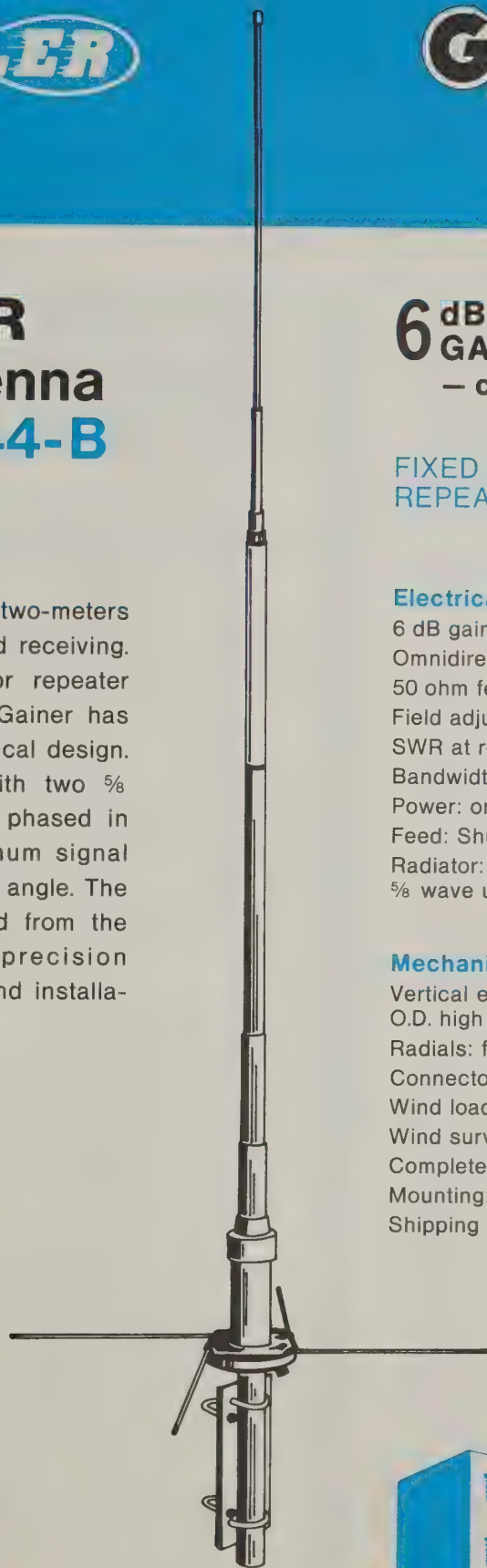
FIXED STATION OR
REPEATER OPERATION

Electrical

6 dB gain over $\frac{1}{2}$ wave dipole.
Omnidirectional radiation pattern.
50 ohm feed impedance.
Field adjustable: 140-150 MHz.
SWR at resonance: 1.2:1 measured at antenna.
Bandwidth: 6 MHz for 2:1 or better SWR.
Power: one kilowatt FM.
Feed: Shunt with dc grounding.
Radiator: $\frac{5}{8}$ wave lower section, $\frac{1}{4}$ wave phasing, $\frac{5}{8}$ wave upper section.

Mechanical

Vertical element: 117" long, 1 $\frac{1}{8}$ " telescopic to $\frac{3}{8}$ " O.D. high strength aluminum.
Radials: four, 20 $\frac{1}{16}$ " x $\frac{3}{16}$ " O.D. aluminum.
Connector: SO-239.
Wind load: 26 pounds at 100 mph.
Wind survival: 100 mph.
Completely self-supporting.
Mounting: vertical support up to 1 $\frac{3}{4}$ " O.D.
Shipping Weight: 6.8 lb.



NEW

"the home of originals"

HUSTLER

148-174 & 220 MHz Fixed Station

148-174 MHz Vertical Antennas Model G7-150

Each version of the G7-150 is designed for maximum performance within a specific business band. Features 7 dB gain (compared to a $\frac{1}{2}$ wave dipole), both transmitting and receiving.

- 1, 148-154 MHz
- 2, 155-161 MHz
- 3, 162-167 MHz
- 4, 168-174 MHz

New design techniques keep the omnidirectional antenna radiation at an extremely low angle for maximum range. Each G7-150 is made from the finest corrosion-resistant materials for extra long life. Assembly is fast and easy. Radiator is dc grounded.

Specifications

Length: 122" long.
Power Capability: one kilowatt FM.
SWR at Resonance: 1.2:1 at antenna.
Bandwidth: 3 MHz for 1.5:1 SWR.
Impedance: 50 ohms.
Radials: four, $19\frac{1}{4}$ " x $\frac{3}{8}$ " O.D.
Connector: type N.
Wind Load: 26 lb at 100 mph.
Mounting: vertical support up to $1\frac{3}{4}$ " O.D.
Shipping Weight: 10.0 lb.

220 MHz Vertical Antenna Model G7-220

The 7 dB omnidirectional gain (compared to a $\frac{1}{2}$ -wave dipole) of this rugged antenna means exceptional 220 MHz ($1\frac{1}{4}$ meter) amateur performance, receiving and transmitting. A unique new design keeps the signal pattern at the lowest possible angle for maximum radiation efficiency.

Famous Hustler reliability is built in. Each component is precisely made using top-quality corrosion resistant materials. The antenna is quick to assemble and easy to install. It will give years of excellent all-weather performance and trouble-free service. The radiating elements are dc grounded for lightning protection.

Specifications

Length: 122" long.
Power Capability: one kilowatt FM.
SWR at Resonance: 1.2:1 at antenna.
Bandwidth: 5 MHz for 1.5:1 SWR.
Impedance: 50 ohms.
Radials: four, $14\frac{3}{4}$ " x $\frac{3}{16}$ " O.D.
Connector: type N.
Wind Load: 26 lb at 100 mph.
Mounting: vertical support up to $1\frac{3}{4}$ " O.D.
Shipping Weight: 7.0 lb.

7 dB
GAIN

— compared to $\frac{1}{2}$ wave dipole

7 dB
GAIN

— compared to $\frac{1}{2}$ wave dipole

NEW

"the home of originals"

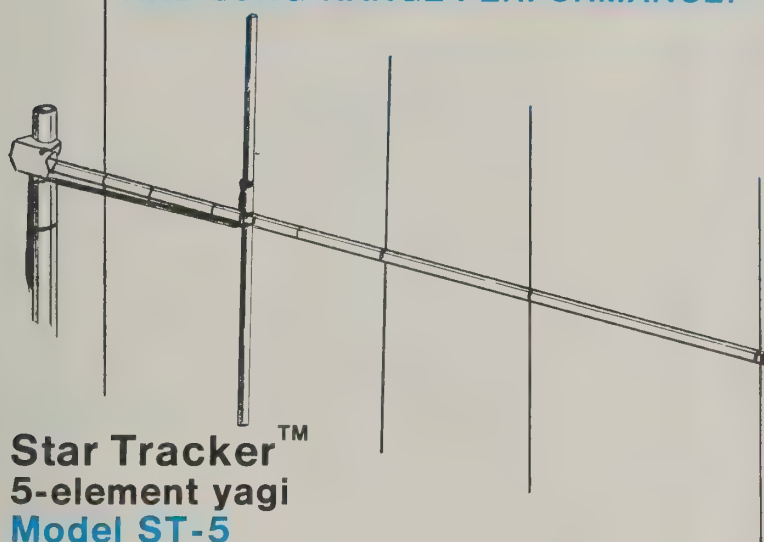


Star Tracker™

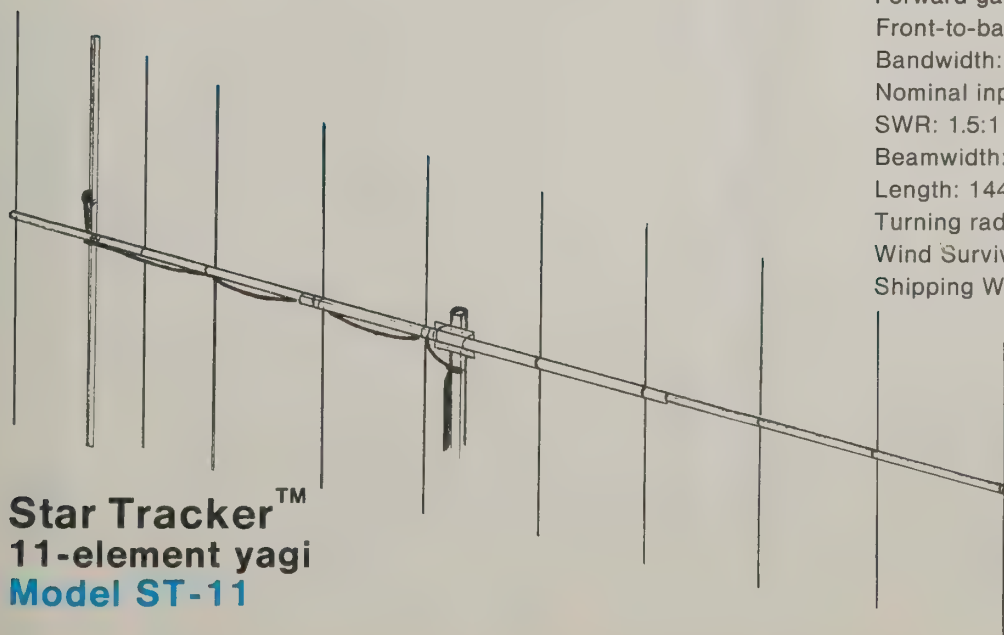


TWO METER 5 and 11 Element Beam Antennas

**DESIGNED FOR MAXIMUM GAIN
AND LONG-RANGE PERFORMANCE!**



Star Tracker™
5-element yagi
Model ST-5



Star Tracker™
11-element yagi
Model ST-11

Hustler two-meter yagi antennas have been designed for really long-distance communications and superior performance under any conditions. Each model Star Tracker is completely tuneable from 144-148 MHz with a unique adjustable match for 1.5:1 or better SWR. These fixed station beams are constructed from the finest materials combining light weight and strength, rugged enough to withstand severe weather. Hustler beams are power rated at full legal limit.

Model ST-5 Specifications

Forward gain: greater than 10 dB*.
Front-to-back ratio: greater than 22 dB.
Bandwidth: 4 MHz.
Nominal input impedance: 50 ohms.
SWR: 1.5:1 or better.
Beamwidth: 50°, 3 dB.
Length: 54"
Turning radius: 54"
Wind Survival: 100 mph.
Shipping Weight: 3.0 lb.

Model ST-11 Specifications

Forward gain: greater than 13 dB*.
Front-to-back ratio: greater than 27 dB.
Bandwidth: 4 MHz.
Nominal input impedance: 50 ohms.
SWR: 1.5:1 or better.
Beamwidth: 36°, 3 dB.
Length: 144"
Turning radius: 72"
Wind Survival: 100 mph.
Shipping Weight: 6.5 lb.

*Compared to ½ wave dipole.

"the home of originals"



Amateur Super Hustler

Multi-band Antennas

FOR 6 - 10 - 15 - 20 - 40 - 75 - 80 METERS

Only Hustler gives you a mobile antenna with more than a decade of proven performance, mechanically and electrically superior to all others. Get the advantage of Hustler's individual-band impedance matching for optimized band performance. Matching devices are not required. Use any convenient length 50 ohm coaxial cable. Get lowest SWR and broadest bandwidth on every band. (See mounts on Pages 37, 39; Cables on Page 40.)

HUSTLER MASTS

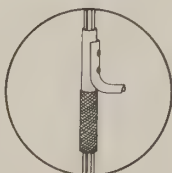
Only Hustler gives you a choice of mounting location with masts that fold at roof line for quick interchange of band resonators or easy garaging. When operating, the mast and resonator assembly is erected and held vertical with a shakeproof sleeve clutch. The 54" mast alone serves as a $\frac{1}{4}$ -wave 6-meter antenna. Each mast is made from finest quality $\frac{1}{2}$ " O.D. hard drawn brass and heat treated aluminum. The stainless steel base has $\frac{3}{8}$ "-24 thread to fit all Hustler ball mounts.

Model MO-1

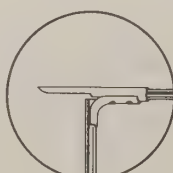
For deck or fender mounting — Fold is at roof line 15" above base. Shipping Weight: 1.9 lb.

Model MO-2

For bumper mounting — Fold is at roof line 27" above base. Shipping Weight: 2.3 lb.



The Original hinge and sleeve clutch mechanism.



Rotates 360° in horizontal plane for easy garaging.

MO-1

MO-2

RM

RMS

TO ASSEMBLE YOUR HUSTLER

Deck or Fender Mounting:

Model SSM-2 ball mount
Model MO-1 mast
Model L-14-240 cable

Bumper Mounting:

Model BM-1 bumper mount
Model MO-2 mast
Model L-14-240 cable

Optional Accessories for Either Mount:

Model QD-1 quick disconnect (Page 38)
Model RSS-2 resonator spring (Page 38)

HUSTLER RESONATORS

All resonators are optimized for each band and weather sealed. Assembly includes adjustable 17-7 PH stainless steel tip rod, band edge marker, and positive locknut and clutch. Hustler resonators are available for medium or high power.

Standard Hustler Resonators — Power Rating: 400 watts SSB

Model	Band
RM-10	10 meters
RM-11	Citizens Band
RM-15	15 meters
RM-20	20 meters
RM-40	40 meters
RM-75	75 meters
RM-80	80 meters

Super Hustler Resonators — Power Rating: Legal Limit SSB Supers have widest band-width

Model	Band
RM-10-S	10 meters
RM-11-S	Citizens Band
RM-15-S	15 meters
RM-20-S	20 meters
RM-40-S	40 meters
RM-75-S	75 meters
RM-80-S	80 meters



Two Meter & 220 MHz Mobiles

C

TWO METER

5.2 dB Gain*
Collinear
Trunk-Lip Mount Antenna

Model CGT-144

- spin knob to remove antenna
- 1.1:1 (typical) SWR at resonance
- 6 MHz bandwidth, 1.5:1 or better SWR
- power rating: 200 watts FM
- 85" height, antenna and mount

Get the ultimate in mobile performance with this super gain two meter Hustler antenna. Optimized low angle radiation is obtained through critical phasing of the $\frac{1}{4}$ and $\frac{5}{8}$ wave radiating sections. Tapered stainless steel elements for minimum wind loading. Assembly includes heavy duty trunk lip mount with 180° swivel ball for optimized vertical positioning of antenna. Mount designed for easy installation on trunk lid without drilling. Includes 17' top-quality RG-58 coaxial cable. Antenna is removable. Shipping Weight: 3.34 lb.

Model CG-144 Antenna Only

This antenna has same electrical characteristics as Model CGT-144. It is supplied in resonant length and with $\frac{3}{8}$ "-24 base to fit mobile ball mounts. Length of antenna is 85 $\frac{3}{4}$ ". Mount and cable not included. Shipping Weight: 1.84 lb. (See mounts on Pages 36, 39.)

*Compared to $\frac{1}{4}$ -wave ground plane.



NEW

220 MHz

5.2 dB Gain*
Collinear
Trunk-Lip Mount Antenna

Model CGT-220

- spin knob to remove antenna
- 1.1:1 (typical) SWR at resonance
- 6 MHz bandwidth, 1.5:1 or better SWR
- power rating: 200 watts FM
- 58" height, antenna and mount

This outstanding $1\frac{1}{4}$ meter antenna delivers 5.2 dB gain* both transmitting and receiving. It incorporates a design that keeps radiation at the lowest angle for maximum range. Elements are tapered stainless steel. The trunk lip mount has a 180° swivel ball for vertical antenna positioning; includes 17' top-quality RG-58 coaxial cable. Shipping Weight: 1.16 lb.

NEW

220 MHz

"Buck-BuSter!" TM

3.4 dB Gain*

Model SF-220

This low-cost $\frac{5}{8}$ wave $1\frac{1}{4}$ meter amateur mobile combines excellent value and high performance.

SWR at Resonance: adjustable to 1.5:1 or better.

Bandwidth: 6 MHz, 2:1 or better SWR.

Power Capacity: 100 watts max.

Radiating Element: 17-7PH stainless steel, taper ground and polished.

Length: 31"

Base: $\frac{3}{8}$ "-24 thread. (Mounts on Pages 36-39)

Shipping Weight: 0.87 lb.

*Compared to $\frac{1}{4}$ wave ground plane.

SF-220



"the home of originals"

HUSHLER

Two Meter 3.4 dB Gain Mobiles

TWO METER

3.4 dB Gain*
Trunk-Lip Mount Antenna

Model BBLT-144A

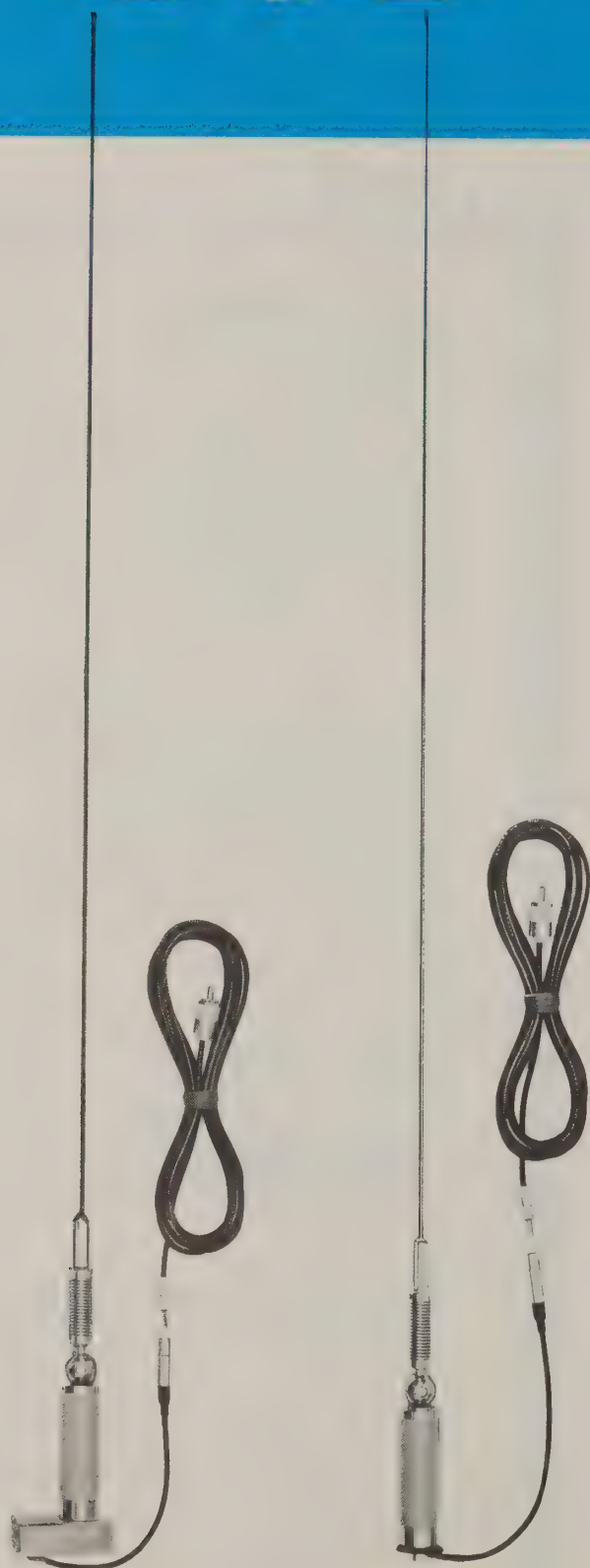
- 1.1:1 (typical) SWR at resonance
- $\frac{5}{8}$ wavelength
- 52" height, antenna and mount
- power rating: 200 watts FM

Careful design of the shunt-fed matching system guarantees maximum signal radiation at the point of lowest SWR. A stainless steel impact spring and extra-heavy, tapered, 17-7PH stainless steel radiator provide maximum protection against flutter and detuning at freeway speeds. The mount is easy to install on a trunk lid without drilling. The BBLT-144A includes 17' top-quality RG-58 coaxial cable, connectors attached. The 180° swivel ball permits optimum antenna positioning. The antenna is removable. Shipping Weight: 2.76 lb.

Model BBL-144A

Roof-Mount Version of BBLT-144A

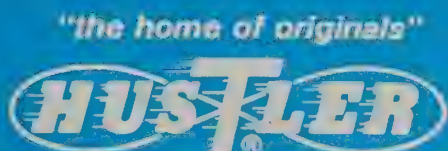
Get the same outstanding performance of the BBLT-144A in this roof-mount version. The mounting assembly is designed for quick and easy installation from the outside of the vehicle using a $\frac{3}{4}$ " hole on any flat surface. The BBL-144A includes 17' top-quality RG-58 coaxial cable, connectors attached. The 180° swivel ball permits optimum antenna positioning. The antenna is removable. Shipping Weight: 2.6 lb.



BBLT-144A

BBL-144A

*Compared to $\frac{1}{4}$ wave ground plane.



Two Meter Economy Mobiles



TWO METER Hustloff™

Trunk-Lip Mount

Model HT-144

**SPIN THE KNOB AND
STORE ANTENNA IN TRUNK!**

- two meter, $\frac{5}{8}$ wave length
- 3.4 dB gain over $\frac{1}{4}$ wave ground plane

This low-cost antenna combines the value and performance of the popular "Buck Buster" SF-2 antenna with the no-rip-off features of the "Hustloff" trunk-lip mount. Just turn the knob to remove or mount the HT-144. It's quick and easy, and it can't be removed when the trunk is closed. The unique "Hustloff" design assures you of a positive, solid electrical ground plus extreme mechanical integrity. An adjustable 180° swivel ball permits optimum antenna positioning.

Specifications:

SWR at Resonance: adjustable to 1.5:1 or better.
Bandwidth: 6 MHz, 2:1 or better SWR.
Power capacity: 100 watts max.
Radiating Element: 17-7PH stainless steel, taper ground and polished.
Length: 54" overall.
Cable: 17' top-quality RG-58 coaxial, installed connectors.
Shipping Weight: 2.25 lb.



HT-144

TWO METER "Buck-BuSter!"™

Model SF-2 antenna available separately; $\frac{3}{8}$ "-24 base fits all Hustler deluxe mobile mounts.
Shipping Weight: 1.0 lb.
(See mounts on Pages 36-39.)

NEW

TWO METER SPEEDY Buck™

Model SPS-144

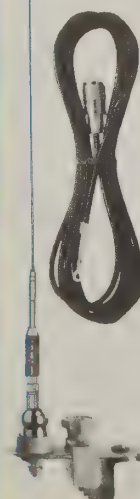
**THIS FAST-MOUNT LOW-COST
MOBILE HANGS ON TIGHT
AND WON'T COME OFF...
UNTIL YOU WANT IT TO!**

- two meter, $\frac{5}{8}$ wave length
- 3.4 dB gain over $\frac{1}{4}$ wave ground plane

The Speedy Buck features a unique fast on/fast off mount, 3.4 dB gain (over a $\frac{1}{4}$ wave ground plane) transmitting and receiving, plus famous Hustler top-quality construction and reliability — all for one low price. The SPS-144 mounts on almost any vertical or horizontal edge for theft protection or car wash (see Page 7 illustrations).

Specifications:

SWR at Resonance: adjustable to 1.5:1 or better.
Bandwidth: 6 MHz, 2:1 or better SWR.
Power capacity: 100 watts max.
Radiating Element: 17-7PH stainless steel, taper ground and polished.
Length: 54" overall.
Cable: 17' top-quality RG-58 coaxial cable, factory installed connectors.
Shipping Weight: 1.32 lb.



SF-2

SPS-144

NEW

C

"the home of originals"

HUSTLER

148-174 MHz 3.4 dB Gain Mobile

148-174 MHz 3.4 dB Gain* Roof-Mount Antenna Model BBL-150A

OPTIMIZED FOR UNEQUALED PERFORMANCE!

- power rating: 200 watts FM
- 1.3:1 or less (typical) SWR at resonance
- $\frac{5}{8}$ wavelength, 50 ohms impedance
- 52" height, at lowest frequency

The Model BBL-150A is a unique combination of 200 watts power capacity and 3.4 dB gain*, which makes it the new standard of communications performance.

Hustler's time-proven consistent quality and reliability guarantees that this all-weather mobile antenna will outperform other similar designs every time. The specially designed shunt-fed matching system of the BBL-150A assures maximum signal range at the point of lowest SWR, typically 1.3:1 or less at resonance. Antenna frequency is adjustable from 148-174 MHz.

The mounting assembly is designed for quick and easy installation from the outside of a vehicle using a $\frac{3}{4}$ " hole on any flat surface. The mechanical performance and rf characteristics of the mount are excellent.

A sturdy stainless steel impact spring and extra heavy, tapered, 17-7 PH stainless steel radiator provide maximum protection against flutter and detuning at freeway speeds. The 180° swivel ball on the mount allows optimal vertical positioning of the antenna.

The BBL-150A comes complete with 17' of top-quality RG-58 coaxial cable and factory-installed connectors. The antenna is removable from the mount. Shipping Weight: 2.38 lb.



BBL-150A

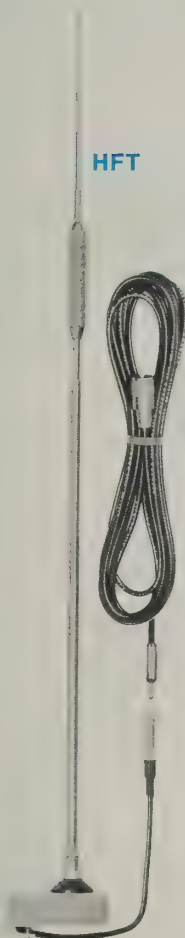
*Compared to $\frac{1}{4}$ wave ground plane.

"the home of originals"

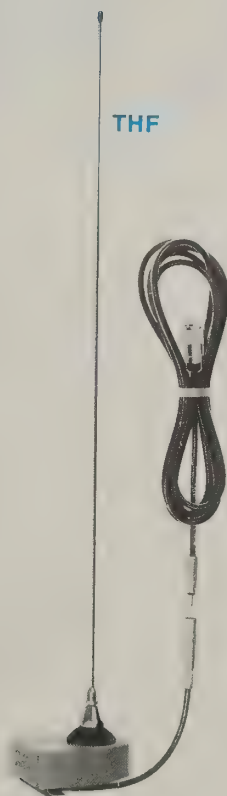


Multi-Band Mobiles

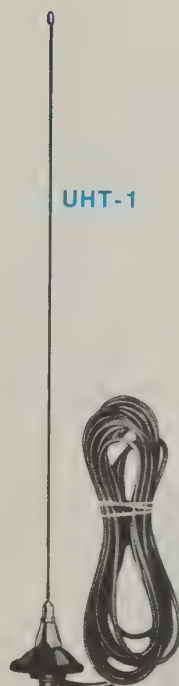
C



HFT



THF



UHT-1

Unity Gain

Model HFT

Two and Six Meter Trunk-Lip Mount

Get combined two-band operation. Heavy duty four-section telescopic antenna permits separate adjustment for simultaneous resonance on two and six meters. Excellent performance with unity gain (quarter wave) on two and near unity gain on six meters. Operational height approximately 40". Collapses to 22". Antenna is removable from mount. Supplied with easy to install, no drilling, trunk lip mount and 17' top-quality RG-58 coaxial cable with connectors attached. Shipping Weight: 2.3 lb.

Model THF

VHF-UHF Trunk-Lip Mount

Trimmable 17-7 PH stainless steel radiator is cut to quarter wave-length for unity gain. Performance on any frequency from 140 to 500 MHz. Trim chart included. Easy to install trunk lip mount attaches to trunk lid without drilling. Supplied ready for operation with 17' top-quality RG-58 coaxial cable, all connectors factory attached. Shipping Weight: 1.5 lb.

Model UHT-1

VHF-UHF Roof or Deck Mount

Low profile mount designed for easy installation in $\frac{3}{4}$ " hole on any flat surface or on roof without pulling headliner. Trimmable 17-7 PH stainless steel radiator permits operation on any frequency from 140 to 500 MHz for unity gain (quarter wave) performance. Trim chart and 15' top-quality RG-58 coaxial cable included. Shipping Weight: 1.2 lb.

"the home of originals"

HUSTLER

D

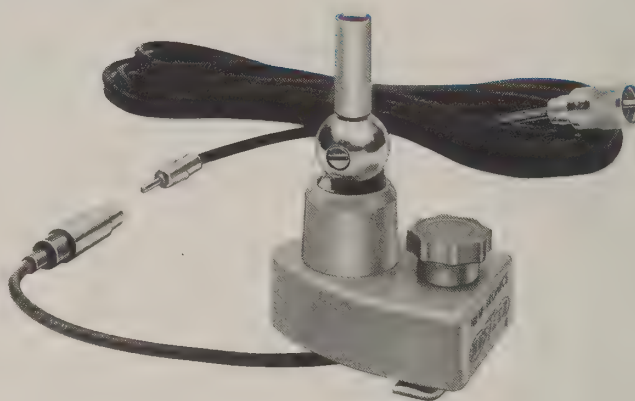
Trunk Lip Mounts

**Easy—no drilling—no soldering
—no wire trimming installation**

HUSTLOFF™

Model HOT

Turn the knob and store the antenna out of sight in the car trunk. To remount, slip the assembly on your trunk lid and spin the knob. It's that quick, that easy! Mount cannot be removed when trunk is closed. Design guarantees superior performance both mechanically and electrically. Includes 180° adjustable swivel for vertical positioning of antenna. Supplied with 17' of top-quality RG-58 coaxial cable, factory installed connectors, ready to use. Accepts most flexible antennas with $\frac{3}{8}$ "-24 threaded base up to 55" in length. Shipping Weight: 1.9 lb. For Models HQ-27, FG-27s, SF-2 antennas.

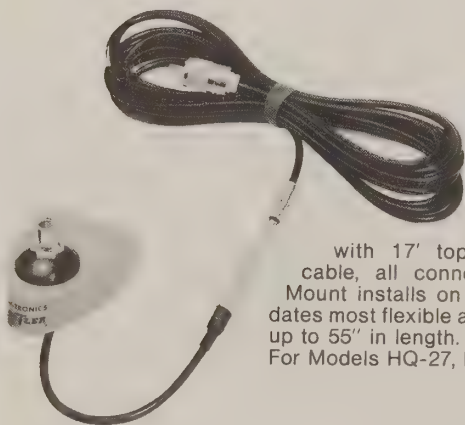


Model TLM

Here is an easy to install, no holes to drill, trunk lip mount designed for exacting performance. Supplied

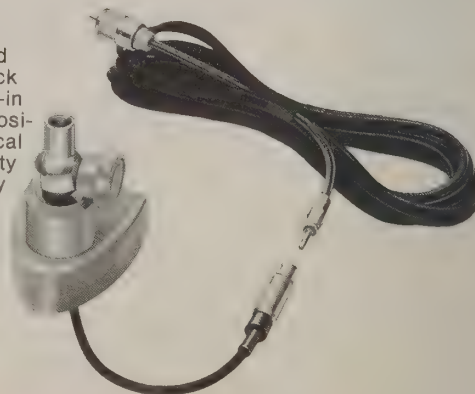
with 17' top-quality RG-58 coaxial cable, all connectors factory attached.

Mount installs on trunk lip and accommodates most flexible antennas with $\frac{3}{8}$ "-24 base up to 55" in length. Shipping Weight: 1.86 lb. For Models HQ-27, FG-27s, SF-2 antennas.



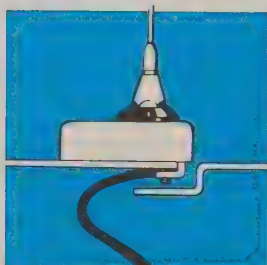
Model HLM

Deluxe trunk lip mount designed specifically for slanted rear deck and hatch-back vehicles. Built-in 180° adjustable swivel permits positioning antenna to optimum vertical location. Includes 17' top-quality RG-58 coaxial cable with factory installed connectors. Accepts most flexible antennas with standard $\frac{3}{8}$ "-24 base up to 55" in length. Shipping Weight: 1.70 lb. For Models HQ-27, FG-27s, SF-2, CG-144 antennas.



Hustler Trunk Mounts

Special retainer holds cable in place and stops pinch or failure from frequent trunk closure.



Features "quick spin" knob for instant lay down or complete removal of antenna from mount.



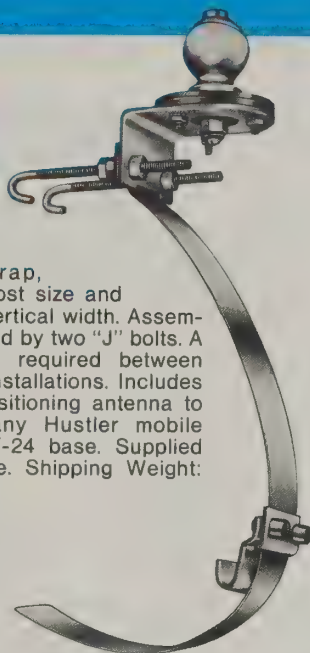
Performance Mounts

D

RIGID POSITIVE BUMPER MOUNT

Model BM-1

Easy to install, heavy duty stainless steel strap, stronger than chain, fits most size and shape bumpers up to 18" vertical width. Assembly is tightened and held rigid by two "J" bolts. A clearance of only $\frac{5}{16}$ " is required between bumper and car for most installations. Includes 180° adjustable ball for positioning antenna to vertical. Accommodates any Hustler mobile antenna with standard $\frac{3}{8}$ "-24 base. Supplied complete with all hardware. Shipping Weight: 2.70 lb.



RECREATIONAL VEHICLE MOUNT

Model RVM

Heavy duty mount is designed for vertical side panel or roof mounting. Rugged construction includes 180° swivel adjustment for positioning antenna to vertical and a "quick spin" knob for instant lay down or rapid removal of the antenna from the mount. The 17' top-quality RG-58 coaxial cable may be dressed thru RV panel in $\frac{3}{8}$ " hole. Includes cable grommet and mounting hardware. Accepts most flexible antennas with $\frac{3}{8}$ "-24 threaded base up to 55" in length. Shipping Weight: 1.9 lb. For Models HQ-27, FG-27s, SF-2 antennas.



GUTTER CLAMP MOUNT

Model GCM-1

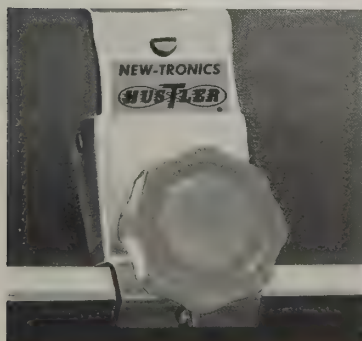
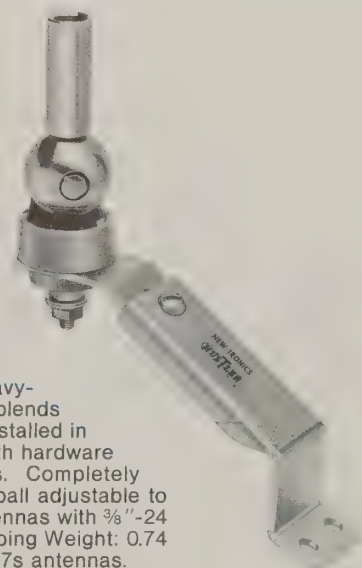
This deluxe, heavy gauge chrome plated gutter mount attaches securely to your rain gutter. Fits many angles, sizes, and shapes of grounded gutters. Special grounding screw assures superior, trouble-free, noise-free performance. 180° swivel ball and adjustable mount permits complete adjustment. Accepts most flexible antennas with $\frac{3}{8}$ "-24 threads up to 55" in length. Shipping Weight: 0.8 lb. For Models HQ-27 and FG-27s antennas.



TRUNK GROOVE MOUNT

Model TGM-1

Eye-pleasing design of this heavy-gauge chrome plated mount blends with car trim. Mount is easily installed in hidden area of trunk groove, with hardware supplied. Fits most vehicles. Completely adjustable. Supplied with split ball adjustable to 180°. Accepts most flexible antennas with $\frac{3}{8}$ "-24 thread up to 55" in length. Shipping Weight: 0.74 lb. For Models HQ-27 and FG-27s antennas.



NO ROB KNOB™ MODEL NRK

Now you can install or remove your Hustler rain gutter antenna in just seconds for quick, out of sight storage. Retain the superior electrical performance and mechanical security of a permanently mounted antenna. Just replace the regular locking bolt with the No Rob Knob. Fits all Hustler rain gutter mounts. Shipping Weight: 0.2 lb.

"the home of originals"

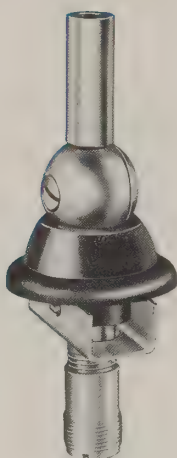
HUSTLER

Special Mounts and Accessories

LO PROFILE COWL MOUNT

Model MM-1

Get superior performance and styling in this Hustler low profile, chrome plated mount. Assembly installs from outside vehicle on any flat surface, any angle, in 1" hole. Positive-locking split ball swivels up to 180°. Base includes SO-239 coax connector. Mount accepts most flexible antennas with $\frac{3}{8}$ "-24 base up to 55" in length. Shipping Weight: 0.64 lb. For Models HQ-27, FG-27s, SF-2 antennas.



LO PROFILE UNIVERSAL MOUNT

The Hustler universal mount is ideal for roof, fender, side panel, or any location on cars, trucks, RV's. Installs on vertical or horizontal surface in $\frac{3}{4}$ " hole. Mount can be installed from outside of vehicle in blind area providing cable feed-thru is accessible. Lock pin keeps mount from turning. Adjustable 180° swivel permits positioning antenna to vertical. Accepts most flexible antennas up to 55" with $\frac{3}{8}$ "-24 thread. For Models HQ-27, FG-27s, SF-2 antennas.

Model MM-2 with 5' top-quality RG-58 coaxial cable, factory attached connectors. Shipping Weight: 1.0 lb.

Model MM-3 with 17' top-quality RG-58 coaxial cable, factory attached connectors. Shipping Weight: 1.3 lb.



LIFETIME PERFORMANCE! QUICK DISCONNECT

100% Stainless Steel Model QD-1

The Hustler quick disconnect is designed for rugged trouble-free performance. Every part, including the compression spring, is manufactured from stainless steel. Special design of the enclosed compression and lock assembly guarantees complete freedom against ice and dirt freeze up. Easy press-and-twist release of the antenna from the mount is assured in this precision-machined assembly. Accommodates any length mobile antenna. Equipped with $\frac{3}{8}$ "-24 threads, female one end and male on the other. Shipping Weight: 0.40 lb. For Models HT-27, HHT-27, HQ-27, HQ-27M, MO-1, MO-2, CB-111, CB-211, CB-111S, CB-211S, FG-27s, TLA-27Ls, TGF-27Ls, SDTs, HLM-27Z antennas.



RESONATOR SPRING Model RSS-2

Finest quality stainless steel spring for use between resonator and mast on Hustler mast antennas or at base of antennas not exceeding 55" length. This $\frac{3}{4}$ " x 3- $\frac{1}{2}$ " spring absorbs shock when antenna strikes overhanging obstructions. Supplied ready to use with $\frac{3}{8}$ "-24 threads, female on one end, male on the other. Shipping Weight: 0.36 lb. For Models MO-1, MO-2, CB-111, CB-211, CB-111S, CB-211S, HQ-27, FG-27s antennas.

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Ball Mounts & Springs

D

Standard Commercial – Stainless Steel



Designed for rugged duty, long life, and economy. The corrosion-free 2" reinforced stainless steel ball is adjustable for 180°. Metal inserts are molded into the grey cyclac base for optimum mechanical stability. Exclusive with Hustler is the "C" shaped backup plate permitting installation from outside the vehicle. Finest quality stainless steel spring surpasses all 90° arc tests. Supplied complete with cork pad and zinc plated hardware. For all Hustler antenna models with $\frac{3}{8}$ "-24 base.

Model SSM-1

Standard commercial ball mount and stainless steel spring. Shipping Weight: 2.53 lb.

Model SSM-2

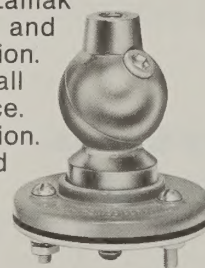
Ball mount only. Shipping Weight: 1.3 lb.

Model SSM-3

Stainless steel spring including $\frac{3}{8}$ "-24 coupling stud. Shipping Weight: 1.21 lb.

Professional Series – Heavy Chrome

Engineered for quality and economy. The die cast Zamak heavy chrome-plated swivel ball is adjustable 180° and includes an extra strength upper half-ball threaded section. Exclusive with Hustler are the star washers between ball halves and ball mount for guaranteed no-slip performance. Grey cyclac base offers strength and excellent insulation. For all Hustler antenna models with $\frac{3}{8}$ "-24 base and Hustler springs.



Model C-32

Hustler professional ball mount. Furnished complete with rubber pad, steel backup plate, all mounting hardware, and hex wrench. Shipping Weight: 0.84 lb.



Hustler springs are made from high strength, tempered steel coil construction and precision-fit end plugs. Springs surpass all 90° arc tests. Excellent electrical performance is assured with the superior rf center-bonding pigtail design. Choose from stainless or chrome plated steel. For all Hustler antenna models with $\frac{3}{8}$ "-24 base.

Model C-29

Stainless steel, corrosion resistant and electropolished spring complete with $\frac{3}{8}$ "-24 coupling stud. Shipping Weight: 1.2 lb.

Model C-30

Chrome-plated steel spring complete with $\frac{3}{8}$ "-24 coupling stud. Shipping Weight: 1.2 lb.

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Deluxe Cables

D

Get guaranteed superior performance, correct impedance, and maximum shielding for greatest immunity against unwanted noise with every Hustler cable. Each assembly is manufactured from top-quality RG-58 coaxial cable, all connectors factory soldered, pre-tested for signal transmission and supplied ready to use.

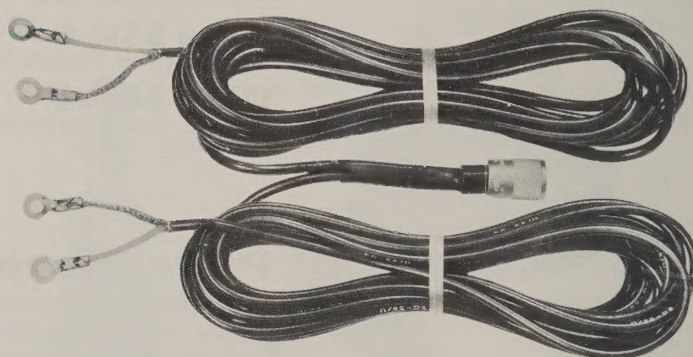
DOUBLE-TALK™

Phasing Harness

Model DTLS

Get superior performance over a single mobile antenna. Two identical Hustler antennas operated in Double-Talk increase antenna aperture and will give a more uniform signal pattern. The antenna mounts must have split-lead terminations. The DTLS harness consists of dual 17' top-quality RG-58 coaxial cable with split-lead terminals on the antenna ends and a PL-259 connector on the transceiver end. Shipping Weight: 1.65 lb. For Models RTG-27L, TGF-27Ls antennas and SSM-1, SSM-2, C-32, RVM, GCM-1, TGM-1 mounts.

**More Consistent Communications!
Greater Signal —
Transmitting and Receiving!**



Coax Leads

Model LU-60

60" top-quality RG-58 coaxial cable with PL-259 connectors on both ends. Shipping Weight: 0.36 lb. Extensions for all models. Also for Models FGB-27Ls, MM-1.

Model LU-216

Same as LU-60 except 216" coaxial cable for rear mounted antennas. Shipping Weight: 0.76 lb.

Model L-14-60

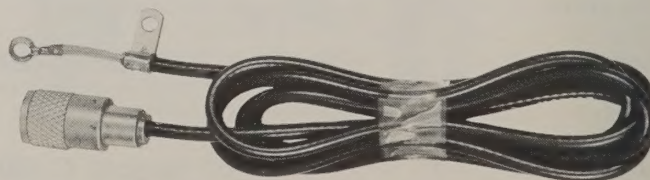
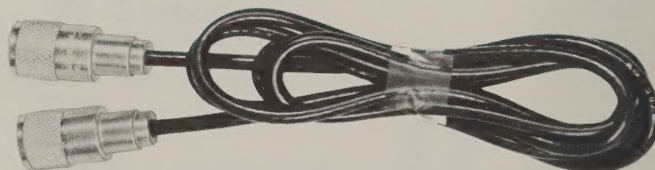
60" top-quality RG-58 coaxial cable with PL-259 connector on one end and split end with lugs on the other. Shipping Weight: 0.29 lb. For all open-terminal models located up to 5' from transceiver.

Model L-14-144

Same as L-14-60 except 144" coaxial cable. Shipping Weight: 0.51 lb. For all open-terminal models located up to 12' from transceiver.

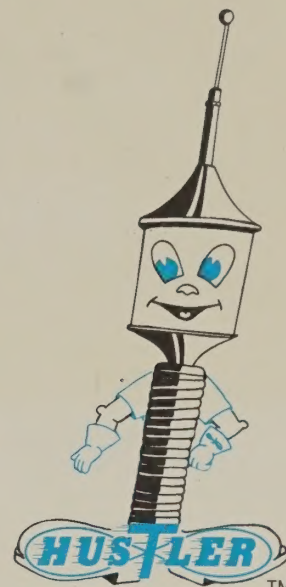
Model L-14-240

Same as L-14-60 except 240" coaxial cable. Shipping Weight: 0.71 lb. For all open-terminal models located up to 20' from transceiver.



HUSTLER

LIMITED WARRANTY



New-Tronics Corporation warrants its products to be free of defects in material and workmanship and extends this warranty under intended use and normal service conditions to the original owner for a period of one year from the date of purchase.

This warranty does not apply to any product that has been repaired or altered in any manner and is void for any damage due to accident, neglect, unreasonable use, improper installation or any other cause not arising out of defects in material or workmanship.

The obligations of New-Tronics Corporation are limited to repairing or replacing, at its option, any product or part that is returned to the factory all transportation charges prepaid, accompanied by proof of purchase and which examination reveals to have been defective within the warranty period stated above. New-Tronics Corporation does not assume, nor is any person authorized to assume for it, any obligation other than that herein stated.

Any implied warranties, including but not limited to fitness for a particular purpose, are limited in duration for the above one year period. New-Tronics Corporation shall not be liable under this warranty, or any implied warranty, for loss of use of the product or for other consequential loss or damage incurred by the purchaser.

Some states do not allow the exclusion or limitation of implied warranties or consequential damages and so the above exclusions of limitations may not apply. This warranty gives you special legal rights and you may have other rights that vary from state to state.

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corporation**

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